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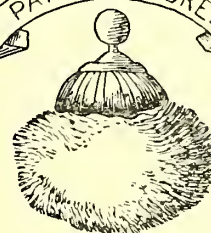
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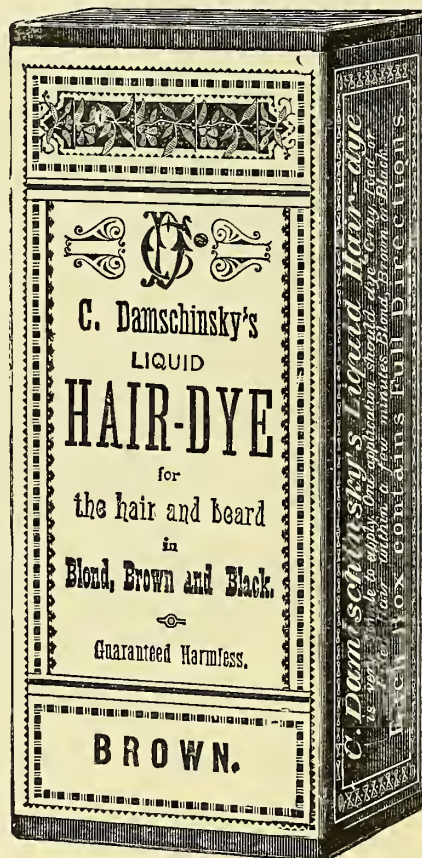
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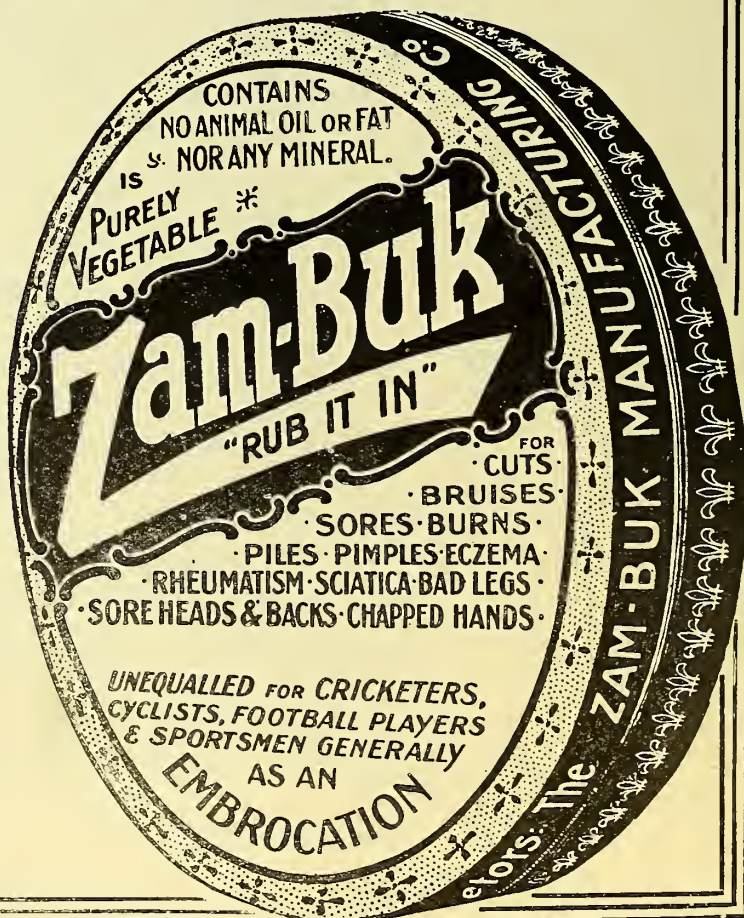
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Baiss Bros. & Stevenson, Ltd.
Blackie, Robert
Kowning, Wm., & Co.
Cupal, Ltd.

**Enamelled Hos-
pital Requisites**
Orme, Evans & Co., Ltd.
Endolytic Tubes
Fletcher, Fletcher & Co. Ltd.
Enemas
Burge, Warren & Ridgley, Ltd.
Ingram, J. G., & Son
Maw, S., Son & Sons
Warne, W., & Co., Ltd.

Epsom Salts
Howards & Sons, Ltd.
May & Baker, Ltd.
**Essences,
Sol and Fruit**
Alliance Drug & Chem.
Barnett & Foster
Boake Roberts & Co., Ltd.
Bush, W. J., & Co., Ltd.
Hay, Wm., J., Ltd.
London Essence Co.
Polak & Schwarz
Stevenson & Howell, Ltd.

Ethers
Baiss Bros. & Stevenson, Ltd.
Duncan, Flockhart & Co.
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Tyer, T., & Co., Ltd.
White, A., & Sons
Encalypus Oil
British Drug Houses, Ltd.
Stevenson, H. E., & Co.
Tasmanian Encalypus Oil Co.

Extract of Herbs
Newhall & Mason
Potter & Clarke, Ltd.
**Extracts
(Medicinal)**
Allen, Stafford, & Sons, Ltd.
Arnfield, J. C., & Sons, Ltd.
Burroughs Wellcome & Co.
Evans Sons Lescher & Webb, Ltd.
Gathergood's Exor.
Hewlett, C. J., & Son, Ltd.
Harker, Stagg & Morgan, Ltd.
Kane, J., & Co., Ltd.
Factory, &c., Sites
Great Western Railway
Feeding Bottles
Bush, H. W., & Co., Ltd.
Maw, S., Son & Sons
Schulze, F., & Co., Ltd.

Feeding Cups
Bishop & Scott, Ltd.
Filling Machines
Forgrove Machinery Co., Ltd.
Jackson, J. G., Ltd.
Robert's Pat. Filling Mach. Co.
Filter Papers
Ford, T. B., Ltd.
Finger Stalls
Solport Bros.
Flower Oils
Zimmermann, C., & Co.
Flycatchers
Ford, Shapland & Co.
Kay Bros., Ltd.
Smith, Jno. H., & Co.
Foods, Invalid, &c.
Allen & Hanbury's, Ltd.
Bell (John), Hills & Lucas, Ltd.
Berner's Food, Ltd.
Brand & Co., Ltd.
British Casein Co. (1911), Ltd.
British Milk Products Co., Ltd.
Colman, J. & F., Ltd.
Deans, Logan & Co., Ltd.
Fairchild Bros. & Foster
Frame Food Co.
Harker, Stagg & Morgan, Ltd.
Krimmer, John
Lotheridge & Saltmer, Ltd.
Mellins Food, Ltd.
Natural Food Co., Ltd.
Plasmon, Ltd.
Reade Bros. & Co., Ltd.
Slater Laura's Infant Food Co.
Southall Bros. & Barclay, Ltd.
Wander, A., Ltd.
Willows, Francis, B. & T., Ltd.
Woolley, Jas., Son & Co., Ltd.
Wulfrum, A., & Co.
Foot Appliances
Scholl Mfg. Co., Ltd.
Fruit Drink
McGlashan, D.
Fuller's Earth
Mumford, G. S., & Sons
Fumigators
Sanitas Co., Ltd.
Gallic Acid
Mallinckrodt Chem. Works
**Glassware,
Chemical**
Lang, Jules, & Son
Price's Patent Candle Co., Ltd.
Glycerophosphates
Monsanto Chemical Works
Reitmeyer & Co.
Grease Paints
Osborne, Garrett & Co.
Quelch, Henry C., & Co.
Grease Remover
Perkin & Co., Ltd.
Grinders, Drug, &c.
Allen, Stafford, & Sons, Ltd.
Goodall, Backhouse & Co.
Willows, Francis, B. & T., Ltd.
Gripe Water
Woodward, W., Ltd.
Gums
Pink, F., & Co.
Kowning, W. H., & Co.
Lambert Saml., & Co.

Hair Dyes

Harker, O.R., Stagg & Morgan
Blackie, Robert
Hair Preparations
Alexander, L.
Anzora Perfumery Co.
Blackie, Robert
Edwards' "Hartlene" Co.
Osborne, Garrett & Co.
Sangers
Tokalon Ltd.

**Hand Carts,
Trucks, &c.**
Crews & Co.
Turner, J.

Hat Cleaners
Cox, Arthur H., & Co., Ltd.
Miner's Chemical Co.
Senior, All., & Co.

Hat Dyes
Whitaker & Co.
Herbs
Potter & Clarke, Ltd.
Salle, H., & Co.

**Hexamethylen-
tetramine**
Reitmeyer & Co.

**Homeopathic
Medicines**
Ashton & Parsons, Ltd.
Keene & Ashwell, Ltd.
Leath & Ross

Honey
Western Honey Co.
Horse Remedies
Harvey & Co. (Dublin), Ltd.

**Hospital
Furniture**
Gray & Self, Ltd.
**Hospital Ware
(Semi-porcelain)**
Meinecke & Co.

Hot Air Douches
Ward & Goldstone
Hotels
Kingsley Hotel
Thackeray Hotel

Hot Water Bottles
Berton, Arthur, Ltd.
Burge, Warren & Ridgley, Ltd.
Fulham Pottery & Cheavin
Filter Co., Ltd.
Galen Manfg. Co., Ltd.

Ingram, J. G., & Son
Maw, S., Son & Sons
Schulze, F., & Co., Ltd.
Toogood, William, Ltd.
Warne, Wm., & Co., Ltd.
Wood, Vincent

**Hot Water Bottle
Stoppers**
Rove, T. Willcocks
Hydrogen Peroxide
May & Baker, Ltd.
Sanitas Co., Ltd.
Tyer, T., & Co., Ltd.

Hydrokinone
Johnsons & Sons (Mnfg. Chts.)
Hypophosphites
May & Baker, Ltd.
Tyer, T., & Co., Ltd.

**Infusions,
Concentrated**
Arnfield, J. C., & Sons, Ltd.
Ink, Dichroic
Bewley & Draper, Ltd.

Insecticides
Christy, T., & Co.
Cook, E., & Co., Ltd.
Insect Powder
Keing, Thos., Ltd.
Potter & Clarke, Ltd.
Raines & Co.

Iodides
Raines, Clark & Co., Ltd.
Junket Powder
Armour & Co., Ltd.
Lamels, Gelatine
Savory & Moore, Ltd.

Lanlins
Hillier & Co., Ltd.
Howard Lloyd & Co., Ltd.
Lard
Ewen, J., & Sons

Lavender Oil
Allen, Stafford, & Sons, Ltd.
Guillivie, E., & Co.
Ransom, W., & Son, Ltd.

Lavender Water
Bush, W. J., & Co., Ltd.
Gosnell, John, & Co., Ltd.
Vinolia Co., Ltd.

Leeches
Allen & Hanbury's, Ltd.
Ligatures
Seabury & Johnson

Lim Juice
Evans Sons Lescher & Webb, Ltd.
Idris & Co., Ltd.
Linsed, Crushed
Mumford, G. S., & Sons

Lints
Liverpool Lint Co.
Maw, S., Son & Sons
Ransom, W., & Son, Ltd.
Liquorice Juice
Boehm, F., Ltd.
Evans Sons Lescher & Webb, Ltd.
Jackson, Ernest, & Co.
Solazzi

Lithia Salts
British Drug Houses, Ltd.
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.
May & Baker, Ltd.

Loofahs
Hall Foster & Co., Ltd.
Internat. Sponge Importers, Ltd.
Solport Bros.

Lozenges

Swales, Thomas
Dencaul, Jules, & Co.
Guest, Thos., & Co.
Jackson, Ernest, & Co.
Potter & Clarke, Ltd.
Raines & Co.
Warrick Bros., Ltd.

Lysois

Aerators,
Burt, Boulton & Haywood, Ltd.
Evans Sons Lescher & Webb, Ltd.
Lorimer, John
Zimmermann, C. & Co. (Chemicals), Ltd.

**Machinery,
Pharmaceutical**

Allen & Hanbury's, Ltd.
Bennett, Sons & Shears, Ltd.
Forgrove Machinery Co., Ltd.
Gardner, Wm., & Sons, Ltd.
Griffin, John J., & Sons, Ltd.
Jackson, J. G., Ltd.
Pindar, J. W., & Co.

Stokes, F. J., Machine Co.
Thompson & Capper, Ltd.
Wilkinson, S. W., & Co.

**Magnesia and
Preps.**
Henry, T., & W.
Howards & Sons, Ltd.
Phillips, Chas. H., Chem. Co.
Tokalon Ltd.
Washington Chemical Co., Ltd.

**Malt Extract and
Preps.**
Allen & Hanbury's, Ltd.
Blackie, Robert
British Drug Houses, Ltd.
Burroughs Wellcome & Co.
Caldar, James, & Co., Ltd.
Corbyn, Stacey & Co., Ltd.

Davies, Sons & Co.
Evans Sons Lescher & Webb, Ltd.
Fletcher, Fletcher & Co., Ltd.
Lorimer Marshall, Ltd.
May, Roberts & Co., Ltd.
Paine & Co., Ltd.
Pascall, James, Ltd.
Wyley, J., & Co.

Marking Ink
John Bosc (Crystal Palace)
**Measures,
Graduated**
Bush, H. W., & Co., Ltd.

Meat Extracts
Armour & Co., Ltd.
Brand & Co., Ltd.
Tooth's Extract of Meat Co.

Medical Coils
Ward & Goldstone
Mercurials
Alliance Drug & Chemical Co.
Howards & Sons, Ltd.
May & Baker, Ltd.
Tyer, T., & Co., Ltd.

Metal Clips
Griffin, John J., & Sons, Ltd.
Methylarsenates
Roques, Ferdinand

Methylated Spirit
Brough, J., Ltd.
Purton's Liverpool Distillery
Randall & Son, Ltd. [Co., Ltd.
Riddell & Smith
Thornley, Samuel, Ltd.

Metric Weights
Avery, W. & T., Ltd.
Mineral Waters
Camwall, Ltd.
Coulsworth, Ltd.
Idris & Co., Ltd.
Ingram & Royle, Ltd.

Mixers and Sifters
Gardner, Wm., & Sons (Glos.) Ltd.
Naphthalene
Burt, Boulton & Haywood, Ltd.

Night Lights
Price's Patent Candle Co., Ltd.
Oils, Essential
Allen, Stafford, & Sons, Ltd.
Alliance Drug & Chemical Co.
Boake Roberts & Co., Ltd.
Boehm, F., Ltd.
Bonaventura, F., & Co.
Bush, W. J., & Co., Ltd.
Dodge & Olcott Co.
Evans Sons Lescher & Webb, Ltd.
Guillivie, E., & Co.
Lane-Hall, R., & Co.
London Essence Co.
Lueders, George, & Co.
Magnus, Mabe & Reynardine.
Poppelreuter
Ransom, W., & Son, Ltd.
Stevenson & Howell, Ltd.
Verona Chemical Co.

Patent Agents
Barker, R. W.
Raworth, John E.
Peppermint Oil
Allen, Stafford, & Sons, Ltd.
Bush, W. J., & Co., Ltd.
Dodge & Olcott Co.
Ransom, W., & Son, Ltd.
Rudd, F. M.
Stevenson & Howell, Ltd.

Peptone
Fairchild Bros. & Foster
May & Baker, Ltd.
Perfume Materials
Bonaventura, F., & Co.
Bush, W. J., & Co., Ltd.
Kerfoot, T., & Co.
Lane-Hall, R., & Co.
Lueders, George, & Co.
Naef, M., & Co. Succrs.
Polak & Schwarz
Stevenson & Howell, Ltd.
Wright, Layman & Unney, Ltd.
Zimmermann, C. & Co., Ltd.

Perfumes
Allen & Hanbury's, Ltd.
Baiss Bros. & Stevenson, Ltd.
British Drug Houses, Ltd.
The Bromley, H., & Co., Ltd.
Bush, W. J., & Co., Ltd.
Christy, T., & Co.
Erasmo Co., Ltd.
Evans Sons Lescher & Webb, Ltd.
Gosnell, John, & Co., Ltd.
Lescol Perfumery Co.
Lorimer, John
Potter & Clarke, Ltd.
Price's Co., Ltd.
Quelch, H. C., & Co.
Shirley Bros., Ltd.
Southall Bros. & Barclay, Ltd.
Tozana Perfumery Co.
Vinolia Co., Ltd.
Warrick Bros., Ltd.
West, T., & Son

Perles
Tye, John, & Son
Pessaries (Soluble)
Burge, Warren & Ridgley, Ltd.
Rendell, W. J.

Opal Jars
Toogood, Wm., Ltd.

Opium

Preparations
Oldfield, Pattinson & Co.

Optical Goods
Darton, F., & Co.
Maw, S., Son & Sons
Nitsche & Gunther Optical
Co., Ltd.
Standard Optical Co.

Optical Tuition
British Optical Institute
College of Optics
Spectacle Makers Company

**Orange and
Quinine Wine**
Hobson, Joseph, & Son
Idris & Co., Ltd.
Millar, A., & Co., Ltd.
Robinson, B., & Co., Ltd.

Organic Solvents
Hopkin & Williams, Ltd.

**Organo-Thera-
peutic Preps.**
Armour & Co., Ltd.
British Organotherapy Co., Ltd.
Duncan, Flockhart & Co.

Otto Rose (French)
Guillivie, E., & Co.
Otto Rose (Synth.)
Bush, W. J., & Co., Ltd.
Guillivie, E., & Co.
Kerfoot, Thos., & Co.
Stevenson & Howell, Ltd.
Stevenson, H. E., & Co.
Warrick Bros., Ltd.
Wright, Layman & Unney, Ltd.

Oxygen Baths
Wright & Co.

Packed Goods
Allen & Hanbury's, Ltd.
Baiss Bros. & Stevenson, Ltd.
Blackie, Robert
British Drug Houses, Ltd.
The Corbyn, Stacey & Co., Ltd.
Cox, Arthur H., & Co., Ltd.
Christy, Thos., & Co.
Cupal, Ltd.
Davies, Sons, & Co.
Evans Sons Lescher & Webb, Ltd.
Goodall, Backhouse & Co.
Harker, O.R., Stagg & Morgan
Lothhouse & Saltmer, Ltd.
May, Roberts & Co., Ltd.
Oldfield, Pattinson & Co.
Potter & Clarke, Ltd.
Holidays & Co.
Shirley Bros., Ltd.
Southall Bros. & Barclay, Ltd.
Standard Tablet & Pill Co., Ltd.
Toogood, W., Ltd.

Palatinoids
Oppenheimer, Son & Co., Ltd.
Paper Containers
Cream Mugs, Ltd.

**Paper
Handkerchiefs**
Toinoco Handkerchief Co., Ltd.

**Paraffinum
Liquidum**
Browning, Wm., & Co.
Cheshbrough Manfg. Co.
Silvertown Lubricants, Ltd.
Stern Sonneborn Oil Co., Ltd.

Pastilles
Allen & Hanbury's, Ltd.
Burroughs Wellcome & Co.
Evans Sons Lescher & Webb, Ltd.
Guest, Thos., & Co.
Kerfoot, Thomas, & Co.
Wander, A., Ltd.
Warrick Bros., Ltd.

Patent Agents
Barker, R. W.
Raworth, John E.
Peppermint Oil
Allen, Stafford, & Sons, Ltd.
Bush, W. J., & Co., Ltd.
Dodge & Olcott Co.
Ransom, W., & Son, Ltd.
Rudd, F. M.
Stevenson & Howell, Ltd.

Peptone
Fairchild Bros. & Foster
May & Baker, Ltd.

Perfume Materials
Bonaventura, F., & Co.
Bush, W. J., & Co., Ltd.
Kerfoot, T., & Co.
Lane-Hall, R., & Co.
Lueders, George, & Co.
Naef, M., & Co. Succrs.
Polak & Schwarz
Stevenson & Howell, Ltd.
Wright, Layman & Unney, Ltd.
Zimmermann, C. & Co., Ltd.

Perfumes
Allen & Hanbury's, Ltd.
Baiss Bros. & Stevenson, Ltd.
British Drug Houses, Ltd.
The Bromley, H., & Co., Ltd.
Bush, W. J., & Co., Ltd.
Christy, T., & Co.
Erasmo Co., Ltd.
Evans Sons Lescher & Webb, Ltd.
Gosnell, John, & Co., Ltd.
Lescol Perfumery Co.
Lorimer, John
Potter & Clarke, Ltd.
Price's Co., Ltd.
Quelch, H. C., & Co.
Shirley Bros., Ltd.
Southall Bros. & Barclay, Ltd.
Tozana Perfumery Co.
Vinolia Co., Ltd.
Warrick Bros., Ltd.
West, T., & Son

Perles
Tye, John, & Son
Pessaries (Soluble)
Burge, Warren & Ridgley, Ltd.
Rendell, W. J.

Opal Jars
Toogood, Wm., Ltd.

Petroleum Jelly

Cheshbrough Manfg. Co.
Kidon, W. M., & Co.
Mead-King, J., & Son, Ltd.
Stern Sonneborn Oil Co., Ltd.
Wiener, R.O., & Co.

Phenacetin
Bruce, James, & Co.
Greiff, R. W., & Co.
Monsanto Chemical Works
Read, Holliday & Sons, Ltd.
Reitmeyer & Co.

**Phosphorus and
Preps.**
May & Baker, Ltd.

Photo. Chemicals
Greiff, R. W., & Co.
Johnson, W. S. (Manufacts)
Chemists, Ltd.
Lane-Hall, R., & Co.
Reitmeyer & Co.

Photo. Goods
Ayrton, Saunders & Co., Ltd.
Burroughs Wellcome & Co.
Butcher, W., & Son, Ltd.
Evans Sons Lescher & Webb, Ltd.
Kent, G. B., & Sons, Ltd.
Lennon, Ltd.
May, Roberts & Co., Ltd.
Newbery, F., & Sons, Ltd.
Rajar, Ltd.
Sangers
Wyley, Ltd.

Photo. Postcards
Rajar, Ltd.

Pill Makers
Cox, A. H., & Co., Ltd.
Davies, Sons & Co.
Howard Lloyd & Co., Ltd.
McKesson & Robbins
Standard Tablet & Pill Co., Ltd.
Wand Manufacturing Co.

Pilocarpine
Roques, Ferdinand

Plasters
Dalmas, A. de St. & Co.
Galen Manfg. Co., Ltd.
Seabury & Johnson

Plate Powder
Griffiths, T. D., & Co.

Pleated Paper
Darter, Wilkinson & Co.

Pocket Lamps
Electric
Ward & Goldstone

Polishes (Various)
Bradley & Bourdas
Holidays & Co.
Oakley, J., & Sons, Ltd.

Postal Boxes
Globe Fox Co.
Hertz & Co.
Robinson & Sons, Ltd.

Powder Paper
Papier Poudre, Ltd.

Printers
Ford, Shapland & Co.
Sutley & Shierlock, Ltd.
Townsend, J., & Sons
Waite, T., & Sons
Wilkinson, James F.

**Proprietary
Articles**
Angier Chemical Co., Ltd.
Baiss Bros. & Stevenson, Ltd.
Ashton & Parsons, Ltd.
Beecham, T.
Reghe & Chiappetta
Bell (John), Hills & Lucas, Ltd.
Bishop, Alfred, Ltd.
Brewell, M., & Co.
Browning, W., & Co.
Burgess, E.
Castle Laboratory
Christy, T., & Co.
Colman, J. & F., Ltd.
Corbyn, Stacey & Co., Ltd.
Crimson Cross Disinfectant
Cupal, Ltd.
Daisy, Ltd.
Dayenport, J. T., Ltd.
Deans, Logan & Co., Ltd.
Duncan, Flockhart & Co.
Edwards, W., & Son
Evans Sons Lescher & Webb, Ltd.
Expurgo Manfg. Co.
Fellows & Manfg. Co.
Fennings, Alfred
Farris & Co., Ltd.
Fulford, C. E., Ltd.
Goodall, Backhouse & Co.
Hardcastle, W., & Sons
Henry, T. & W.
Hommel's (Dr.) Hemostat
International Chem. Co., Ltd.
Johnson Laboratories
Kay Bros., Ltd.
Kutnow, S., & Co., Ltd.
Kyho Proprietary, Ltd.
Mandall & Co., Ltd.
Martindale, W.
May, Roberts & Co., Ltd.
Morgan Jones & Co.
Mumford, G. S., & Sons
Newbery, F., & Sons, Ltd.
Odol Chemical Works
Onesheimer, Son & Co., Ltd.
Owbridge, W. T., Ltd.
Peat Products (Sphagnum) Ltd.
Phillips, Chas. H., Chem.
Pneumosan Company
Primer, J.
Resol Chemical Co.
Sangers
Scott & Bowne, Ltd.
Scott & Turner, Ltd.
Squire & Sons, Ltd.
Standard Tablet & Pill Co., Ltd.
Thompson & Capper, Ltd.
Tokalon Ltd.
Tunbridge & Wright
Wander, A., & Son
Warrick Bros., Ltd.
White, A., J., Ltd.
Willcox, Joezeau & Co.
Woodward, W. Ltd.
Wright & Layman & Unney, Ltd.

- Puffs**
Schultz, F., & Co., Ltd.
Solpert Bros.
- Pyrogallol Acid**
Green, E. W., & Co.
- Quinine and Salts**
Alliance Drug & Chem. Co.
Bandong Quinine Factory
Corby, Stacey & Co., Ltd.
Gread, E. W., & Co.
Howards & Sons, Ltd.
Keltmeyer & Co.
- Razors**
Horsman, R., & Sons, Ltd.
Kelland, W. F.
Maw, S., Son & Sons
- Reagents**
Hopkin & Williams, Ltd.
- Rennet Powder**
Armour & Co., Ltd.
- Resins, Resinoids**
Allen, Stafford, & Sons, Ltd.
Macfarlan, J. F., & Co.
Mason, W., & Son, Ltd.
Smith, F. & H., Ltd.
- Respirators**
Simmer & Co.
- Rubber Goods**
Altrincham Rubber Co.
Berton, Arthur, Ltd.
Burge, Warren & Ridgley, Ltd.
Haywood, J. H., Ltd.
Ingram, J. G., & Son
Maw, S., Son & Sons
Tompkins, J., Ltd.
Warus, W., & Co., Ltd.
- Rubber Sponges**
Markt & Co. (London), Ltd.
- Rubber Stamps**
Riehl, O. D.
- Russian Drugs, &c.**
Wladyslaw, Hoffmann & Co.
- Saccharin**
Saccharin Corporation, Ltd.
- Salicylic Acid and Salicylates**
Bush, W. J., & Co., Ltd.
- Santonine**
Goldberg, I. L.
- Saponin**
Field, O. W., Ltd.
- Scientific Apparatus**
Parke, Son & Co., Ltd.
Phillips, J.
Reynolds & Branson, Ltd.
- Scales and Weights**
Avery, W. & T., Ltd.
- Sea Salt**
Tidman & Son, Ltd.
- Seed Dressing**
Hawker, Arthur E.
Tomlinson & Hayward, Ltd.
- Seeds**
Potter & Clarke, Ltd.
- Serums and Antitoxins**
Allen & Hanburys, Ltd.
Burroughs Wellcome & Co., Ltd.
Christy, T., & Co.
Evans & Sons Lescher & Webb, Ltd.
Parke, Davis & Co.
Willcox, Josean & Co.
- Shampoo Powders**
Gosnell, John, & Co., Ltd.
Standard Tablet & Pill Co., Ltd.
- Shares**
Moadam & Tuckness
- Sheep Dips**
Burt, Boulton & Haywood, Ltd.
Hawker, Arthur E.
Standardised Disinfectants Co., Ltd.
Tomlinson & Hayward, Ltd.
- Shop Fittings**
Ayrton-Graham, Ltd.
Cook, George
Evans & Sons Lescher & Webb, Ltd.
Grant, D.
Haskins, S., & Bros., Ltd.
Josephs, Philip, & Sons, Ltd.
Maw, S., Son & Sons
Mills, H.
Parnall & Sons
Ruddock & Co.
Sangers
- Shoulder Straps**
Wood, Vincent
- Silverware Goods**
Scott, Adolph
- Soap Perfumes**
Stevenson & Howell, Ltd.
- Soaps, Toilet, &c.**
Allen & Hanburys, Ltd.
Armour & Co., Ltd.
Bell (John), Hills & Lucas, Ltd.
Bronnley, H., & Co., Ltd.
Chesebrough Manfg. Co.
Christy, Thos., & Co.
Cook, E., & Co., Ltd.
Erasmo Co., Ltd.
Eucriy, Ltd.
Evans & Sons Lescher & Webb, Ltd.
Ewen, James, & Sons
Faulkling, F. H., & Co.
Field, J. C. & J., Ltd.
Fulford, C. E., Ltd.
Gosnell, John, & Co., Ltd.
Harrison, G. W.
Hovenden, E., & Sons, Ltd.
Lescot Perfumery Co.
Pears, A. & F., Ltd.
Price's Patent Candle Co., Ltd.
Resinol Chemical Co.
Wright, Layman & Umney, Ltd.
- Sodium Bicarbonate**
Brunner, Mond & Co., Ltd.
Howards & Sons, Ltd.
- Sodium Salicylate**
Read, Holliday & Sons, Ltd.
- Soothers**
Newbery, F., & Sons, Ltd.
Schutze, F., & Co., Ltd.
- Spartaine**
Roques, Ferdinand
- Spectacles**
Darton, F., & Co.
Maw, S., Son & Sons
Mitsche & Gunther Optical Co., Ltd.
- Spermaceti**
Price's Patent Candle Co., Ltd.
- Sphygmometers**
Hicks, James J.
- Spices (Ground)**
Allen, Stafford, & Sons, Ltd.
Goodall, Backhouse & Co.
- Spirit of Wine**
Burrough, J., Ltd.
Caldar, James, & Co., Ltd.
Preston's Liverpool Distillery Co., Ltd.
- Sponges**
Internl. Spongelporters, Ltd.
Newbery, F., & Sons, Ltd.
- Sprays**
Benton & Stone, Ltd.
Burge, Warren & Ridgley, Ltd.
Christy, Thos., & Co.
Hovenden, E., & Sons, Ltd.
Maw, S., Son & Sons
Parke, Davis & Co.
Sangers
Toogood, Wm., Ltd.
- Sprinkler Corks**
Betts & Co., Ltd.
- Spruce Beer**
Hobson, Joseph, & Son
- Starch**
Mumford, G. S., & Sons
- Stills**
Bennett, Sons & Shears, Ltd.
Dore, John, & Co.
Stokes, F. J., Machine Co.
- Stoppers**
Rowe, T. Wilfrid
Stipendum Stopper Co.
- Surgical Appliances & Dressings**
Allen & Hanburys, Ltd.
Bates Bros. & Stevenson, Ltd.
Berton, Arthur, Ltd.
Burgeyne, Burdidge & Co.
Burroughs Wellcome & Co.
Bush, Henry W., & Co., Ltd.
Carnegie Bros.
Christy, Thos., & Co.
Cuxson, Gerrard & Co., Ltd.
Dalmas, A. de St., & Co.
Galen Manfg. Co., Ltd.
Gimber, W., & Son
Gray & Selby
Haynes, G., & Co.
Liverpool Lint Co.
Macfarlan, J. F., & Co.
Mason Bros. & Chapman
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Robinson & Sons, Ltd.
Seabury & Johnson
Southall Bros. & Barolay, Ltd.
Thermogene Co., Ltd.
- Van Horn & Sawtell**
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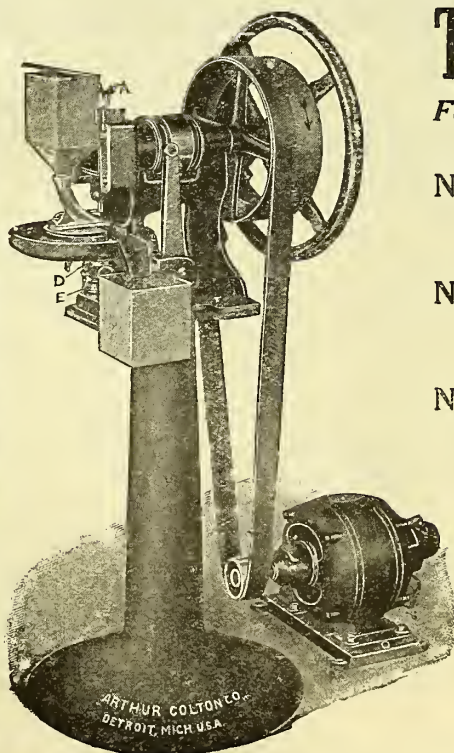
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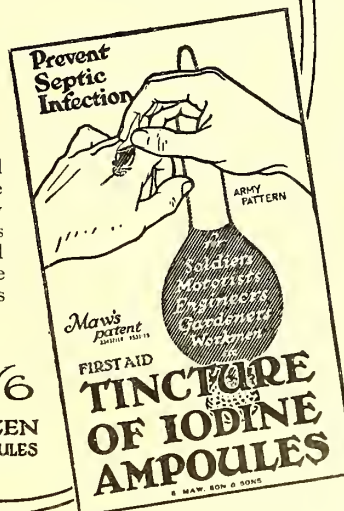
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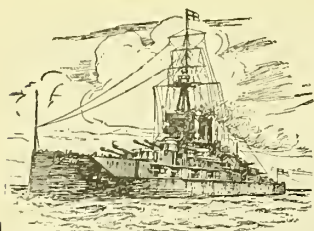
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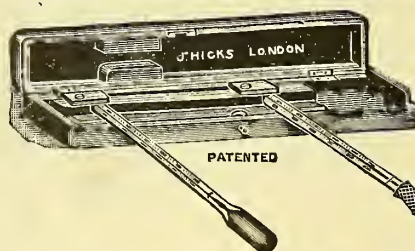
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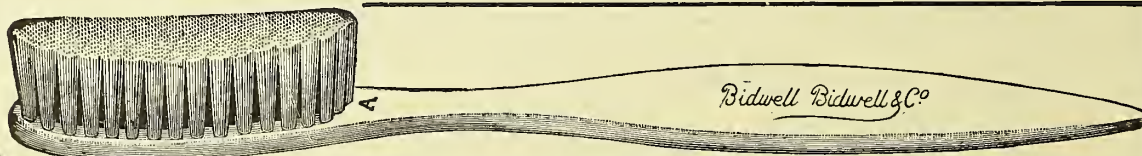
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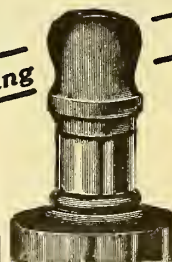
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 SOAP**

A high-grade Toilet Soap of marked Antiseptic properties. Non-irritating. Agreeably perfumed. Lathers in hard water. Assists the complexion. Heals cuts & abrasions. Invaluable in the Nursery.

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Already a good selling line by reason of its delightful perfumes, quite superior to those usual in 2d. soaps. In Lilac, Parma Violet, White Rose, Jockey Club, New Mown Hay, and Carnation. Sells at 2d. per tablet. Wholesale 20/- per gross, less 10 % for not less than one gross.

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S P E C I A L I T I E S

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MADE IN ENGLAND

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Effectively replaces the Product of an Alien Enemy

INDICATIONS :

Mental and Physical Fatigue, and Nervous Breakdown, Insomnia and Neurasthenia.

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ON P.A.T.A. LIST.

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Manufacturing Chemists

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* " " " " " "	1/-	7/-
* " " " " " bottles in cartons	1/6	10/6

* Losall's Salt sells so well, surely it must pay Pharmacists to stock such a big profit-bearing protected line.

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SHOULD STOCK

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Wholesale Prices on Application.

INDEX and BUYERS' GUIDE

See pages 5 to 7.



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30 gross bag post free for 11/-

Free sample sent on application.

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**DISORDERS of the LIVER, GOUT,
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VICHY-ETAT PASTILLES.

Two or three Pastilles after each meal facilitate Digestion.

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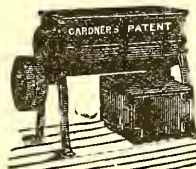
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The "EMPIRE" Brand.

(ORDINARY STYLE)				s.	d.
Hospital pattern	...	...	per doz.	10	0
" lens front	...	...	"	13	0
60-seconds, plain	...	...	"	11	0
" lens front	...	...	"	15	0
30-seconds, plain	...	...	"	13	0
" lens front	...	...	"	17	0

The "DUO IN UNO" Patent.

(QUICK SHAKE DOWN)				s.	d.
Hospital pattern	...	...	per doz.	12	0
" lens front	...	...	"	16	0
60-seconds, plain	...	...	"	15	0
" lens front	...	...	"	20	0
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" lens front	...	...	"	27	0

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510.
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PEDESTAL



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18"	24"	30"	
24/-	32/-	34/-	per doz.

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ON APPLICATION.**

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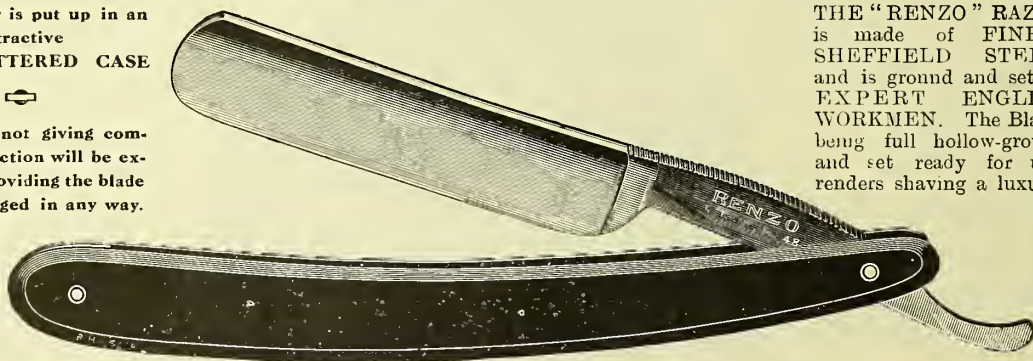
Each Razor is put up in an attractive

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Any Razor not giving complete satisfaction will be exchanged, providing the blade is not damaged in any way.

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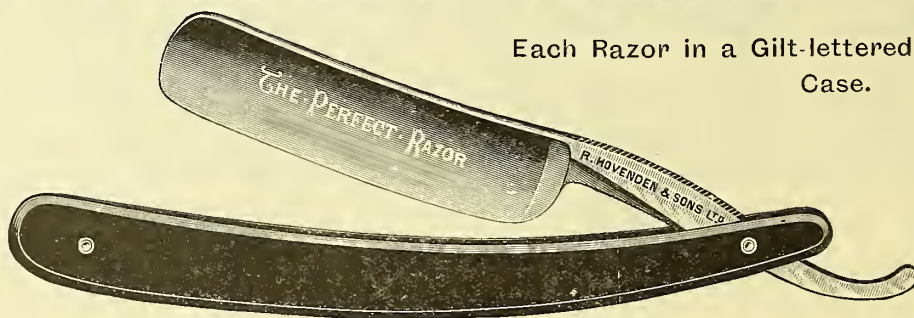


No. 2.— $\frac{1}{2}$ -in.	Black Handle, jimpt and file-cut tang, round point	...	...	...	s.	d.	
No. 2.— $\frac{3}{4}$ -in.	" " " " " " " "	...	...	...	27	0	per doz.
No. 2.— $\frac{7}{8}$ -in.	" " " " " " " "	...	...	...	27	0	"
		...	...	...	27	0	"

THE "PERFECT" RAZOR. No. 1009.

British
Made
by
British
Labour.

Each Razor in a Gilt-lettered Case.



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Summary.

The philology of words beginning with S is discussed by "Xrayser II." on p. 39.

South African chemists are just as displeased as those at home with the treatment of dispensers in the Medical Corps (p. 28).

An application was made to the Comptroller of Trade-marks to suspend or avoid the two "Odol" trade-marks. It was not favourably received (p. 44).

Some correspondents are not pleased with Mr. Montagu's dolo and speech (p. 53); "Xrayser II." thinks better of them (p. 39), and Blackburn is quite pleased, but asks for more (p. 47).

Mr. F. M. Fisk, European manager to Parke, Davis & Co., died last Saturday, and was buried on the same day as a well-known West-end pharmacist, Mr. R. L. Whigham (pp. 35-36).

Export business in March was much better than in March 1914, in spite of the war (p. 40), and this particularly applies to business in pharmaceuticals, which manufacturers and wholesalers should follow up as advised on p. 42.

In the article on imperial standardisation we show that the State has commenced to control the efficacy and purity of medicines—salvarsan and neo-salvarsan. This, we say, is a precedent for B.P. physiological standardisation (p. 41).

A method of detecting small amounts of paraffin wax in beeswax was communicated to the London Section of the Society of Chemical Industry on April 12. There were also exhibits of laboratory ware and kapok, in which the members displayed considerable interest (p. 37).

Markets are fairly brisk, but alterations are fewer. The synthetic chemicals are now at a dangerously high level, and buyers should act cautiously, as when further supplies become available from neutral and allied countries a reaction is inevitable. Chloroform is 2*d.* dearer (p. 49).

European War.

Pharmaceutical Roll of Honour.

Non sibi sed patriæ.—CICERO.

THIRTIETH LIST.

CROSSLING, Gordon (son and pupil of Mr. F. Crossling, chemist and druggist, Aberdeen), R.A.M.C., Highland Casualty Clearing Section.

DOEL, Staff-Sergeant Arthur J., dispenser, South African Railways, Bloemfontein, 7th Mounted Brigade Field Ambulance, S.A.M.C., South African Field Force. [Corrected note.]

FRECKLETON, L. G. (lately with Mr. W. Browne, chemist, Avenue Pharmacy, Finchley Road, London, N.W.), Royal Navy.

GAULTER, Second-Lieutenant C. P. (son of Mr. C. R. Gaultier, chemist, Blackpool), 3rd Battalion King's Liverpool Regiment.

HEWITT, P. H., of Hereford, Public Schools Battalion, Middlesex Regiment.

HOUGHTON, Regimental Sergeant-major G. Smith, chemist, Kimberley, 10th Mounted Brigade, Field Ambulance, S.A.M.C., South African Field Force.

JOINT, H. R. (son and pupil of Mr. F. S. Joint, chemist, Exeter), 1st Battalion 4th Devonshire Regiment, now at Ferozepore, Punjab, India.

THOMSON, E. (formerly of the dispensary staff, Edinburgh Royal Infirmary), 6th Battalion Royal Scots.

TYLER, Private S. (formerly with Mr. E. H. Farr, Ph.C., Uckfield, Sussex), 9th Battalion Royal Sussex Regiment.

Notices as to Exports of Chemicals, etc.

GERMANY.—According to a decree of April 1, the following articles have been added to the list of war requirements the exportation of which from Germany is prohibited: lycopodium; methyl salicylate (artificial); vegetable gelatin and glue-powder; barium chloride and other barium salts; barium oxide, barium superoxide, and other barium compounds; sulphur chloride; carbon disulphide; sal ammoniac; ammonia; sodium bicarbonate; salts of nitrous acid; acetic acid, glacial acetic acid, and acetic anhydride, acetates; calcium carbide; sodium sulphide; sulphates; potassium chromate and bichromate; sodium chromate and bichromate; lactic acid; zinc ashes and zinc oxide; malonic acid and its derivatives, such as esters of malonic acid, and of diethylmalonic acid, etc.; sulphites; carbolic acid and its derivatives; calcium phosphide; artificial magnesium carbonate; lead acetate and solution of lead subacetate. Another decree of April 1 extends prohibition of exportation from Germany to aluminium naphthol disulphonate (alumnol), argentamine (ethylidenediamine silver-phosphate solution), silver lactate (actol), silver citrate (itrol), silver-albumen compounds, such as silver proteinate, protargol, silver protalbinat, silver nucleinate, sophol (silver formo-nucleinate), albumose silver, novargan, largin, hegonone, gelatose silver (albargin), silver caseinate (argomin) and sodium silver caseinate, gliadine silver, argyrol, silver sulphoichthyolate (ichtthargan), colloidal silver (collargol), silver nitrate and the fused nitrate, organic and inorganic silver compounds and preparations thereof which are not mentioned by their names in this decree; perugen (artificial Peru balsam), ointments and pastes made of vegetable, animal, or mineral fats; thallium sulphate and other thallium salts, zinc acetate, zinc permanganate, zinc sulphophenylate, zinc sulphate. The exportation of cork and cork articles is also prohibited. The prohibition of exportation of kaolin has been revoked.

ITALY.—Among the latest additions to the list of prohibited exports are chemical manures, cellulose, aluminium sulphate, chrome salts, tanning-materials of all kinds, paraffin, ceresin, and stearin.

NETHERLANDS.—Soft yellow and green soap, fecula, and articles manufactured therefrom are additions to the list of prohibited exports.

NORWAY.—The exportation of refined camphor and crude and refined glycerin has been prohibited.

SPAIN has prohibited the export of ammonium sulphate antimony sulphide, olein, and animal oils.

Belgian Doctors' and Pharmacists' Relief Fund.

The subscriptions for the week ended April 13 from pharmacists amount to 71*l.* The following is a list of the subscribers: J. P. Ellerington (sixth donation), 5*l.*; H. A. Watkinson, 10*s.* 6*d.* Collected by the Hull Pharmacists' Association (per T. W. Robinson): W. Stanning, 1*l.*; B. M. Stokess, 10*s.* 6*d.*; Lofthouse & Saltmer, 5*l.* 5*s.*; R. B. Sawyer, 10*s.* 6*d.*; A. P. Metcalfe, 10*s.*; E. H. Earle, 1*l.* 1*s.*; T. H. Newton, 10*s.* 6*d.*; J. J. Spilman, 1*l.* 1*s.*; C. Brameld, 10*s.* 6*d.*; Selle & Iddon, 1*l.* 1*s.*; T. Smith, 1*l.* 1*s.*; Smith &

Nephew, 2*l.* 2*s.*; A. Richardson, 1*l.* 1*s.*; E. Fowler, 5*s.*; W. H. Walton, 10*s.* 6*d.*; J. F. Robson, 1*l.* 1*s.*; J. W. Podmore, 10*s.* 6*d.*; T. H. Good, 5*s.*; H. Leggett, 10*s.*; J. Tiffany, 5*s.*; A. T. Thirsk, 5*s.*; A. J. Wharton, 10*s.* 6*d.*; — Chapman, 1*l.* 1*s.*; A. Bennett, 10*s.*; W. H. Buck, 10*s.* 6*d.*; F. L. Smith, 1*l.* 1*s.*; E. C. Foster, 5*s.*; L. B. King, 5*s.*; T. W. Cockrill, 5*s.*; — Walls, 5*s.*; J. T. Lincoln, 10*s.* 6*d.*; T. W. Agar, 5*s.*; A. Howe, 5*s.*; — Zebb, 5*s.*; S. Heath, 7*s.* 6*d.*; G. Hoyle, 10*s.*; A. D. Markham, 5*s.*; J. R. Foster, 5*s.*; C. D. Brighouse, 7*s.* 6*d.*; — Jackson, 10*s.*; — Jones, 10*s.* 6*d.*; J. E. S. Suddaby, 10*s.* 6*d.*; T. W. Robinson, 1*l.* 1*s.*; — Schofield, 5*s.*; G. A. Hebblethwaite, 5*s.*; G. R. Newton, 5*s.*; E. Ryley, 2*s.* 6*d.*; J. S. Sayers, 1*l.* 1*s.*; F. Kirkus, 2*s.* 6*d.*; — Kenney, 5*s.*; E. S. Perkins, 7*s.* 6*d.*; Hull Pharmacists' Association Funds, 5*l.* Collected by the Sheffield Pharmaceutical and Chemical Society (per S. Furnival): J. G. Jackson, 1*l.* 1*s.*; F. G. Roebuck, 10*s.*; E. C. Knowles, 7*s.* 6*d.*; E. S. Seaborne, 5*s.*; J. H. Meadowcroft, 5*s.*; J. W. Lofthouse, 5*s.*; M. T. Miner, 10*s.* 6*d.*; J. S. Oswald, 10*s.*; T. Cockshot, 2*s.* 6*d.*; J. B. Whitby, 2*s.* 6*d.*; J. E. Alcock, 2*s.* 6*d.*; J. P. Hewitt & Son, 2*s.* 6*d.*; T. W. Hodges, 2*s.* 6*d.*; J. T. Appleton, 5*s.*; J. Dalc, 5*s.*; J. A. Johnson, 5*s.*; G. K. Robinson, 2*s.* 6*d.*; G. Robinson, 2*s.* 6*d.*; J. Chadwick, 2*s.* 6*d.*; E. H. Swift, 1*l.* 1*s.*; S. Eyre, 2*s.* 6*d.*; H. Williams, 2*s.* 6*d.*; F. H. Fox, 2*s.* 6*d.*; J. H. Wright, 5*s.*; W. B. Stather, 5*s.*; E. A. Craven, 2*s.* 6*d.*; G. T. W. Newsholme, Ltd., 2*l.* 2*s.*; J. Preston, 2*l.* 2*s.*; W. E. Heaton, 10*s.* 6*d.*; G. Squire, 1*l.* 1*s.*; J. Evans, F.I.C., 10*s.* 6*d.*; J. C. Gibson, 5*s.*; H. B. Hammond, 5*s.*; Smith & Gill, 10*s.*; H. Bown, 5*s.*; R. Dixon, 10*s.*; B. Ellis, 10*s.*; J. H. Bradwell, 2*s.* 6*d.*; W. P. Arnott, 2*s.* 6*d.*; — Walton, 2*s.* 6*d.*; A. H. Culverhouse, 5*s.*; J. F. Eardley, 1*l.* 1*s.*; S. Furnival, 10*s.*; J. F. Simon, 5*s.*; J. S. Burnell, 2*s.* 6*d.*; W. S. Campbell, 2*s.* 6*d.*; J. B. Pater, 2*s.* 6*d.*; L. B. Henderson, 5*s.*; A. R. Powell, 5*s.*; J. H. Holton, 2*s.* 6*d.*; H. Antcliffe, 5*s.*; H. G. Williams, 1*l.* 1*s.*; S. Lowe, 1*l.* 1*s.*; R. H. Field, 1*s.*; H. T. Watt, 2*s.* 6*d.*; S. Paddon, 5*s.*; E. G. Douthwaite, 5*s.*; G. R. Airey, 5*s.* Collected from the following pharmacists in Derby (per A. Haynes), 5*l.*: Messrs. Budworth, Blaylock, Clarke, Churchill, Elmitt, Fletcher, Goodwin, Harrison, Harvey, Haynes, Lauder, Machon, Pattison, Readman, Riley, Sherwin, Smith, Toy, Turner, Watson, and Whittingstall, and Weston & Co. Bath Pharmaceutical Association, collected by D. A. Evans, per W. J. Hallett (omitted last week): H. C. Broad, 5*s.*; H. Norris, 5*s.*; J. L. S. Gordan, 10*s.* 6*d.*; A. B. Hall, 5*s.*; E. Loveless, 10*s.* 6*d.*; H. W. Gedge, 10*s.* 6*d.*; H. C. Gray, 10*s.* 6*d.*; A. E. Mills, 10*s.* 6*d.*; G. T. Kingston, 10*s.* 6*d.*; Pineh & Co., 10*s.* 6*d.*; R. H. Moore, 10*s.* 6*d.*; Hodders, Ltd., Staff, 12*s.* 6*d.*; Cater, Stoffell & Forth, Ltd., 10*s.* 6*d.*

Notes from Russia.

For a number of years the chief chemical products manufactured in Russia have been fuming sulphuric acid, superphosphates, potash salts, alum, sulphate of soda, hydrochloric and nitric acids, and, on a small scale, salts of tin and lead, nitrites, earths and carthy colours, tartaric and oxalic acids, tartar emetic, and prussiate of potassium. In the course of the last twelve years, however, the production of toluol, trinitrotoluol, nitrobenzol, and benzol has been introduced, as well as the manufacture of liquid oxygen, calcium carbide, lactic acid, acetone, alkali iodides and bromides, other iodine and bromine preparations, hydrogen peroxide, chloroform, a new series of aniline dyes, chemically pure sulphuric, hydrochloric, and nitric acids, gold and platinum salts, antimony salts, and salicylic acid. The centres of Russian chemical industry are Petrograd, Moscow, Odessa, and some of the western provinces. Sulphur is found in the Caucasus and in the Ural Mountains. In the south-west phosphates are abundant, and are in demand for use as manures. The importation, duty free, of certain agri-horticultural chemicals, such as Schweinfurth green, etc., is permitted by the Russian Department of Agriculture. Aniline and its salts have been produced, but the aniline-dye industry has made little progress. Soap and soda products are much more expensive in Russia than in Britain.

The Prefect of Petrograd issued an order by which all pharmacies were forbidden to sell any remedies containing alcohol without receiving a doctor's prescription. This prohibition was due to the fact that pharmacies had been invaded by crowds intent on buying remedies containing alcohol. The Prefect's prohibition did not meet with public favour, so the Prefect modified it in a second order prohibiting pharmacies from selling to the same person at one time more than 30 grams of any medicine containing alcohol. [This note comes to us from the Petrograd correspondent of an Italian paper. We have had a conversation this week with Mr. Fred. Anderson, Moscow (son of the late George Anderson, of the C. & D. staff), and he informed us that an even more serious difficulty than that referred to in the note was the complete stoppage of the

supply of methylated spirit, which followed the abolition of vodka. The most degraded of the drinkers in Russia took to methylated spirit as a substitute, with the result that its sale was totally prohibited; but matters are now improving so much that the Government has been able to relax the first order, and it is now possible to get methylated spirit for legitimate purposes. Mr. Anderson also reports considerable scarcity of certain medicines—for example, a shortage in chloroform and ether—so that many operations on wounded soldiers are being done without anaesthetics. He considers that there is a magnificent opportunity for British manufacturers to open up business with Russia; in fact, the object of Mr. Anderson's visit to England is to purchase machinery and other equipment for his firm, which is not in the pharmaceutical business.]

Personalia.

Mr. G. Smith Houghton, chemist and druggist, Kimberley, South Africa, who is serving with the Colours in German South-West Africa, writes as follows from somewhere in the Kalahari Desert: "Although our little war



Mr. G. S. HOUGHTON.

Africa must seem a puny affair to you in England, it is of great importance to us here. The S.A.M.C. is well served by South African chemists, and no doubt many more would like to join if the pay was better. A chemist ranks as a staff-sergeant dispenser, and draws 7*s.* per diem. Personally, I volunteered in August, and was made regimental sergeant-major of the 10th Mounted Brigade Field Ambulance on October 17. The duties of this position include giving lectures and practical demonstrations in first-aid work generally, and instruction in physical and stretcher drill, as well as acting as dispenser wherever one may be. The Government provide a horse, saddle, and bridle, also uniform. (Uniforms are not at present obtainable.) The clerical part of my duties—pay-sheets, weekly sick-returns, etc.—are lightened by my corporal-clerk. We have five motor-ambulances attached to our brigade, and our strength is 129. Most of the troopers are men who have had training in first-aid, and several of them are gold medallists. The only wounded man we have had in this hospital was a member of our Camel Corps. The bullet passed through his right leg, entering just above the knee, and coming out below the knee without touching any bone. Measles and sunstroke provide most of our cases; so far, I have not seen a case of typhoid. Practically all our troops have been inoculated against this, and their freedom from it is a wonderful testimonial in favour of inoculation. Drugs and dressings are very short, but instruments and other hospital equipment are in good supply. Lack of water is the great drawback of this campaign. The oxen have frequently to go for four days without a drink.

My manager tells me that business in Kimberley is stagnant."

Miscellaneous.

SERBIAN RELIEF FUND.—Mr. H. Crompton, chemist and druggist, Bury, has forwarded a subscription of 10*s.* 6*d.* to this Fund.

The Matheison Alkali-works, of Saltville, Va., have (says the "New York Commercial") closed a contract with the British Government to supply it with a large amount of their products. Bleaching-powder, caustic soda, and soda-ash are the company's principal items.

DANISH NEUTRALITY.—We are informed that a wholesale firm in Copenhagen, which has been dealing in this country for years, now refuses to supply Danish medicines of any kind to the United Kingdom. Apparently the Danish Government is exercising a strict supervision over exports to us.

ACCOMMODATION FOR WOUNDED SOLDIERS.—The War Office has notified Bradford Guardians that it proposes to take over Bowling Park Colony for the accommodation of wounded soldiers, and to pay to the Guardians a capitation grant of 2*s.* 3*d.* per day, which will include the cost of staff and drugs.

GERMAN POTASH.—A report from Washington states that the efforts of the United States Government to obtain concessions for Germany from the British Government, which would permit of the importation of potash fertilisers, have failed, and the American officials have advised Germany that the embargo on potash salts remains unchanged.

COPPER FROM SICILY.—Deputy Foscari has asked the Italian Minister of Finance what measures he proposes to take regarding the action of the German Consul at Messina (Mr. Eduardo Jacob), who, it has been ascertained, has shipped empty lemon-oil coppers of double thickness to Germany, with the evident intention of supplying copper ("Giornale di Sicilia").

The Copenhagen correspondent of the "Evening News" reports that: "Notwithstanding the fact that Sweden has obtained nitrate of soda from England on condition that the same is not re-exported, such re-exportation to Germany has taken place. Sulphuric acid, too, has been exported." The correspondent understands that England has in consequence stopped the supply to Sweden of the above-mentioned articles. The Swedish Press demands that the names of the offenders be published.

RUHLBEN CAMP.—The English civil prisoners at Ruhleben are now running a news sheet of their own under the title of the "Ruhleben Camp News," which is issued fortnightly at 10pf., on foolscap-size paper, all the "news" being typewritten. We are indebted to Mrs. G. P. Forrester for a loan of No. 2 (a special number of seven closely typed pages) and No. 3 (of six pages), sent to her by her husband, who is one of the interned. The items, poetical and otherwise, deal mostly with the doings of the camp, and are written with a spice of humour. Those subscribers who have complaints to make are to be dealt with by the "Fighting Editor," who has been engaged at great expense. Special prominence is given to the performances of the Ruhleben Dramatic Society, musical concerts, football results, etc. Among the official items (printed in English and German) we note that "marmalade, jam, and honey are now again allowed in the camp, and that margarine and sugar are being distributed to over 2,000 men every week from the 'Camp Fund.'" The newspaper gives one the impression that the prisoners are endeavouring to make life tolerable under depressing circumstances, as may be judged from the following quotation:

Ruhleben Rumours.

The yard's getting wetter, the tea's getting thinner,
And we've had enough soup for to burst.
But what does it matter whatever our dinner?
We're all going home on the first.

The bugs are getting stronger, the bed's getting harder,
And we've no bally beer for our thirst.
But sure it don't matter how'er be the larder:
We're all going home on the first.

So here's to old England, whither we're bound,
And may she a long, long while last,
Till the soups and the teas,
And the bugs and the fleas,
And every other blessed old Ruhleben wheeze,
Are buried behind in the past. E. S.

["Home on the first!" Yes—the first opportunity!—
EDITOR.]

News from Austria and Germany.

ILLNESS FROM WAR-BREAD.—It is reported that there has been an enormous increase in the number of cases of stomach-ailments in Berlin as a result of the use of war-bread.

HEINE & Co., essential-oil manufacturers, Leipzig, made net profits of 802,856m. in 1914, against 939,776m. in the preceding year, and will pay a dividend of 10 per cent., compared with 15 per cent. in 1913.

BRITISH CHEMICAL-INDUSTRY is the subject of a further article by Professor Dr. H. Grossmann in the "Chem. Zeitung" of March 20. He quotes Victor Cambon and Earl Brassey to show that neither the French nor the English before the war objected to Germany's monopoly in the manufacture of aniline dyes. He also refers to what British chemists have said on the subject since war broke out, and especially quotes Professor Mollwo Perkin's address to the Society of Dyers and Colorists.

SWINDLING MEN AT THE FRONT is a German offence. Robert Pohl, proprietor of the Hamburg export and import firm Robert Pohl & Co., has been arrested on a charge of swindling in cocoa. The firm bought large quantities of cocoa-shells in Germany and in Holland, ground them and mixed them with a little cocoa of good quality and sold the mixture as cocoa which was particularly recommended as "Liebesgaben" (love gift) for the army. No less than

500,000 blocks of this adulterated cocoa were seized in the manufactory.

WAR LOSSES.—It is estimated that of 93,446 unmatriculated students in German, Austrian, and Hungarian Universities and Technical Institutes 49,750 have entered military service. The proportion varies in different parts of the countries, but is highest at Königsberg University, where 82 per cent. of the students are engaged in the war. The total number of German students with the forces is 63,198, of whom up to December 15 1,081 had been killed. Of 1,535 professors and officials of German universities engaged in the war, 35 had been killed up to the same date.

SCARCITY OF SURGICAL DRESSINGS.—According to a correspondent of "The Times," the military authorities in Berlin have decided to commandeer all stocks of cotton-wool, gauze, cambric, etc., suitable for bandages and surgical dressings. Firms or individuals who hold more than small quantities of such materials are required to give an inventory of them before April 17. In case of failure to comply with this requirement, the stocks of which notice has not been given may be confiscated, and the owners are liable to be punished by six months' imprisonment or a fine not exceeding 500l.

AFFORESTATION IN GERMANY.—Even in war-time the Germans cannot refrain from founding monuments. There is a movement now for planting "Heldenhaine," in which an oak-tree will be planted for every German who has fallen for his country. In all municipalities these oak-trees will be planted on the market-place round the Kaiser-linden, the symbol of peace. A Committee in Berlin is endeavouring to promote this idea all over Germany. All professional and other associations are invited to collaborate for this purpose. The pharmaceutical profession is represented by Professor Dr. H. Thoms.

"ADIEU" is the usual farewell in Germany, but in the campaign of purifying the language of foreign terms exception is being taken to the word. A pharmacist relates in the "Pharm. Zeitung" that at the entrance of his pharmacy he has placed a Red Cross box, into which persons who use the hated term "Adieu" are to drop 5 pfennigs. The legend over the box is as follows:

"Adieu" sagt jetzt kein Deutscher mehr,
Ein deutscher Gruss zu deutscher Ehr'!

It is added that the scheme benefited the Red Cross Fund to the extent of 7,40m. by the time that the apotheker wrote about it in his glee.

INTERNATIONAL BIBLIOGRAPHY OF SCIENCE.—Referring to the closing of the German Bureau for International Bibliography, which was carried on in connection with the scheme of the Royal Society, London, the "Berliner Lokalanzeiger" states: "In this way another tie of international co-operation on behalf of the development of humanity has been torn. Such a rupture with things past may be regretted; it was inevitable after all we have had to endure from England." This refers apparently to the unsuccessful endeavours of German "Kultur" to capture the machinery of the International Catalogue, which is controlled by the Royal Society, with the hearty co-operation of all nations except Germany!

PREPARATION OF OINTMENTS.—Merz & Co., Frankfurt, have obtained a licence for the preparation of ointments consisting of vaseline with which milk-whey is incorporated by the aid of tragacanth. In this way 3,000 parts of liquid can be added to 100 parts of vaseline without the mixture losing its homogeneity. Since the composition of the whey is similar to that of the serum of the injured parts of the skin, the ointment will be readily absorbed. One formula for the ointment is as follows: 40 grams of vaseline is mixed with 20 grams of tragacanth previously triturated with 30 grams of spirit; 600 grams of the warm whey, in which the active ingredient has been dissolved, is then added little by little, with constant trituration ("Chemiker Zeitung," 1915, p. 68).

SCARCITY OF PHARMACISTS.—Ever since the outbreak of war the German pharmaceutical Press has discussed the possibility of a scarcity of qualified pharmacists and assistants. Opinions were much divided, but it is now admitted that there is a great lack of qualified pharmacists, which will become more acute as the men are called up for military service. According to the "Pharmaceutische Zeitung" efforts are being made to obtain pharmaceutical assistants from Austria and Denmark. Austria, it is stated, will certainly be unable to supply the demand, and only Danish assistants who can speak German can be of service. In case these efforts fail the "Pharmaceutische Zeitung" proposes to make use of the services of women pharmacists. "Schliesslich wird uns nichts anderes übrig bleiben" are the terms in which the "Pharmaceutische Zeitung" appreciates the aid of women in pharmacy.

English and Welsh News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Birmingham.

In our issue of March 27, 1915 (p. 49), we remarked that a City Arcade pharmacist had filled a large part of his window with "Thermos" flasks at a remarkably low price. Our correspondent now reports that the flasks in question were "Icy-Hot" flasks.

Sheffield.

Sheffield Guardians, at their last meeting, passed a vote of thanks to Mr. G. T. W. Newsholme, Ph.C., for his services as Chairman of the Board.

The City Council is recommended to appoint Messrs. G. E. Scott-Smith, F.I.C., F.C.S., and John Evans, F.I.C., F.C.S., public analysts for the city at a fee of 10s. per sample submitted for examination.

Local pharmacists have been severely pressed by the lack of both qualified and unqualified assistants. In several cases lady assistants have been appointed, with satisfactory results. Trade in Sheffield, generally speaking, is very good—in some respects better than before the war. This is accounted for by the increased output from the large steelworks.

The Sheffield Pharmaceutical and Chemical Society is to hold a meeting to consider the advisability of altering the date of the commencement of the official year, so that it may coincide with the Pharmaceutical Committee's year. The innovation is rendered desirable, as it has been decided that the President of the Local Association should be Chairman of the Pharmaceutical Committee. The Society's first meeting of the year has hitherto been held in September.

National Chamber of Trade.

The seventeenth annual meeting of the National Chamber of Trade opened at Nottingham on April 8, Mr. R. Carnelly Walshaw, chemist and druggist, Huddersfield, presiding. Mr. Walshaw, having been re-elected President, delivered his address. In the course of it he stated that events during the war had proved conclusively the great value of the private retailer to the community. He wished to state emphatically that the private retailer is not to blame for the scandalous rise in food prices, and that high prices do not mean big profits to the retailer. It would be futile to call on the Government to fix prices, as the remedy might prove worse than the disease. Upon the success of our arms partly, but more on our ability to produce greater quantities of foodstuffs within the Empire lies the remedy, and we ought to set about the increased production at once. Regarding the coming war taxation, further taxation of food would be unwise in face of the already high prices. The only way is to lower the limit of exemption from income-tax, and if this is done we shall have ample revenue to meet the demands of the war, and, afterwards, it would allow sufficient revenue for the partial or total abolition of the taxes on sugar, tea, and other food commodities, and yet provide a means for a more equitable adjustment of taxation. It was decided to hold the autumn meeting of the Chamber at Oxford, and the annual meeting in 1916 at Cardiff.

The Sale of Medicated Wines

At the meeting of the Hampshire Licensing Committee at Winchester on April 14, Fredk. Daniel Coghlan, manager to Timothy White's establishment at Cowes, Isle of Wight, applied for the confirmation of a licence granted by the Island Justices for the sale of wines (off) at premises 17 and 18 High Street, Cowes. It was stated that the company had held a licence for sixteen years in respect of premises 21 High Street, but when the lease of these fell in it was not renewed. They were compelled to make application for a new licence in respect to the premises to which they had removed their business, and an undertaking would be given that only medicated wines should be sold. Mr. Coghlan gave evidence in support of the application, and was asked by the Chairman (Mr.

R. A. Bayford, K.C.) if the wines were sold on a doctor's prescription. Mr. Coghlan replied in the negative. The Chairman inquired the alcoholic strength of such medicated wines as Wincarnis, Hall's Wine, etc., and Mr. Coghlan replied that it was about 10 per cent. After further questions and talk about medicated wines, the application was granted on condition that only medicated wines were sold, and it was agreed that this should be endorsed upon the licence.

Contracts for Drugs, etc.

Settlement of the following contracts for drugs and allied products has been notified since our last issue:

Birkenhead Guardians.—Mr. D. Roger Rowlands, chemist, drugs and druggists' sundries.

Bishops Stortford Urban District Council.—Mr. H. Sparrow, disinfectants.

Clayton-le-Moors District Council.—Newton, Chambers & Co., disinfectants.

Colchester City Hospital.—Mr. A. W. Nunn, Ph.C., drugs and druggists' sundries.

Crewe Corporation.—Executors of L. Booth, disinfectants.

Eton Guardians.—Griffith & Walden, chemists' goods.

Faversham Town Council.—Mr. J. T. Thomas, chemist, disinfectants.

Gloucester City Council.—Mr. H. R. Broad, chemist, drugs, etc., for the hospitals.

Great Crosby Urban District Council.—Taylors, Liverpool, disinfectants.

Hammersmith Borough Council has been recommended to accept the tender of Alfred C. Young & Co. for formaldehyde solution.

Hinckley Urban District Council.—Knight & Crofts, disinfectants.

Macclesfield Borough Hospitals.—Mr. E. Brian, chemist, druggists' sundries.

Romford Urban Council.—Mr. W. S. Steeples, chemist, Romford, disinfectants.

Stockport Corporation.—J. C. Arnfield & Sons, druggists' sundries and antiseptic lockers.

Thame Urban District Council.—Mr. O. J. Barley, chemist, Thame, disinfectants.

Tynemouth Guardians have been recommended to accept the following tenders: W. G. McCoull, carbolic soap, Jeyes' fluid, tartaric acid, and carbonate of soda; John Ismay & Sons, drugs, medicines, and dressings.

Whitby Urban Council.—Mason's Drug-stores appointed chemists.

Willesden Guardians.—Bovril, Ltd., bovril; S. Maw, Son & Sons, druggists' sundries; Society of Apothecaries, drugs.

Woolwich Guardians.—Douglass, Halse & Co., for construction of a bacteriological laboratory.

Miscellaneous.

The members of the St. Helens and District Pharmacists' Association are now closing their pharmacies at 10 P.M. on Saturdays.

Mr. Whitworth Rimmington, chemist and druggist, 31 Otley Road, Shipley, has been granted a transfer of his off-licence from 36 Westgate to that address.

The West Riding Licensing Committee, on April 12, refused to confirm the medicated-wine licence granted to Mr. W. E. Milburn, chemist and druggist, Knottingley (C. & D., February 20, p. 36).

The appointment of Mr. J. H. Heworth, chemist and druggist, to the position of dispenser at Kensington Parish Infirmary, has been sanctioned by the Local Government Board (C. & D., March 6, p. 39).

On April 11 a fire broke out in the storeroom at the premises of Mr. H. W. Farthing, chemist and druggist, 40 City Road, Cardiff. The contents of the store were destroyed, damage to the extent of 50l. being done.

Carnarvonshire Licensing Committee on April 7 refused to confirm a medicated-wine licence granted by the local Licensing Bench to Mr. G. T. Hughes, chemist, Ebenezzer. It was stated that the applicant proposed taking over a business to which a licence was attached.

At Salford Hundred Quarter Sessions on April 7, Charles Boretton (19) was sentenced to fifteen months' imprisonment, with hard labour, for stealing 4l. from the shop of Mr. W. I. Scholes, chemist and druggist, Church Street, Eccles. There were other similar charges against him.

At Brentford Police Court on April 13, Frank Miller (30) was committed for trial at the Central Criminal Court on a charge of having obtained drugs (value about 5l.) by false pretences from Mr. A. V. Dewdney, chemist and druggist, manager to Mr. Donald Fife, chemist and druggist, Cambridge Parade, Twickenham, with intent to defraud. (C. & D., March 20, p. 37, and April 10, p. 35.)

Three deaths from poisons are reported since our last issue. A naval staff-surgeon died as a result of an overdose of morphine, self-administered, there being no evidence to show whether by inadvertence or by intention. A Hammer-smith woman died from morphine-poisoning through taking, it is supposed, an overdose of chlorodyne. At Bow, London, a woman lost her life by taking an overdose of laudanum by misadventure.

A general meeting of the members of the Royal Institution was held on April 12, Sir James Crichton-Browne in the chair, when Sir James George Frazer, Lady Frazer, and Mr. William Frederick Higgins were elected members. The Hon. Secretary announced the decease of Professor E. H. Amagat and Professor Otto N. Witt, honorary members of the Institution, and resolutions of condolence with the relatives were passed.

Owing to the overheating of a stove, an outbreak of fire occurred at the laboratories of S. Maw, Son & Sons, 7 to 12 Aldersgate Street, London, E.C., on the forenoon of April 12. Fortunately the fire-brigade was promptly on the scene, and succeeded in confining the outbreak to the ground floor, where, however, considerable damage was done. The firm desire it to be known that the fire did not occur in their main building, and will not interfere in any way with their business or the prompt despatch of goods to customers.

At Sheffield Police Court on April 9, Herbert Maxfield, Forge Dam, Whiteley Woods, was fined 10*l.* for an offence under the Protection of Animals Act, 1911, in that he knowingly placed upon land tenanted by George Fox Indian meal containing arsenic. It was stated that the meal contained enough arsenic to poison fifty people, and that some fowls belonging to Mrs. Fox were poisoned. The defence was that the parcel containing the meal was on the wall, and defendant pushed it over into the field in question, when the wrapper burst, scattering the contents.

The Galen Lodge.—The installation-meeting of the Galen Lodge took place on April 12 at Freemason's Hall, London, W.C., when Bro. A. J. Bullen Cooper was installed Worshipful Master, in succession to Wor. Bro. T. Tickle. There was a large gathering of members and visitors. Grand Lodge was represented by Wor. Bro. John White, P.G.D., and Wor. Bro. F. W. Hancock, P.A.G.D.C., and many pharmaceutical Masons from London and the provinces were also present. A musical programme was provided under the direction of the Organist of the Lodge, Wor. Bro. G. R. H. Clark, P.M. The officers appointed were: Wor. Bro. A. J. Bullen Cooper, W.M.; Bro. A. Owen Jones, S.W.; Bro. J. T. Humphrey, J.W.; Wor. Bro. H. W. Roach, P.M., L.R., Treasurer; Wor. Bro. F. Bascombe, P.M., L.R., Secretary; Bro. R. Haselwood Jones, S.D.; Bro. F. S. Horsey, J.D.; Wor. Bro. J. H. Arrow, P.M., L.R., D.C.; Bro. F. G. Skelsey, A.D.C.; Bro. M. Curtis, Almoner; Wor. Bro. G. R. H. Clark, P.M., Organist; Bro. G. A. Atkinson, I.G.; Bro. S. R. Powell, Steward; Bro. J. Griffiths, Asst. Steward; Bro. W. Owen, Asst. Steward; Bro. H. Passenger, Tyler.

Circulation of Irregular Pamphlets.—At Tottenham Police Court on April 8, Arthur Milner, an assistant teacher at the Raynham Road Council School, Edmonton, was summoned for distributing a circular which did not bear the name of the printer. Mr. Lewis, for the prosecution, stated that the circular in question bore the heading, "Cordiere, Milner & Scott, analytical and biological microscopists, druggists, and assayers, 64 Bury Street, Edmonton" (defendant's address). It was addressed to married women, and offered consultations, for which no charge would be made. On the back were extracts from letters said to have been received. Mr. S. Brown, who represented the defendant, said defendant pleaded guilty to the technical offence. Mr. Lewis handed a copy of the circular to the Bench to show its contents, and said the Magistrates could draw their inferences as to the nature of the business. A copy of the circular was delivered on January 20, by a small boy, to a Mrs. Kent, Palmers Green, whose husband handed it to the police. On March 1 an inspector saw defendant, who said, in reply to questions, that one of his partners is in America and the other is in England—he would not say where. He was responsible for the circulars, and answered any letters in answer to them respecting such complaints as indigestion, etc., and arranged for medicine such as a chemist would supply. He had sent out about 300 circulars in the last three years. He could not show the testimonials referred to in the circulars. He was an analytical and experimental chemist, and had not taken any degrees in medicine in this country. At a later interview he said he had erred in ignorance. For the defence, Mr. Browne said defendant had made a technical mistake in not having the printer's name on the circulars. The matter, however, had been quite open. He

pointed out that there was no attack on the defendant's business. It was true that defendant interviewed customers, and then obtained the proper drugs, etc., from chemists and supplied them. Now that he knew there was an objection to the circulars he was ready to refrain from sending them out. The Bench found the case proved, and inflicted the maximum penalty of 5*l.*, with 3*l.* 3*s.* costs, or one month's imprisonment.

Irish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Pharmaceutical Society of Ireland.

The following have passed the Preliminary examination: Thomas Francis Higgins, Trim; Thomas Aloysius Hogan, New Ross; Patrick Joseph Hallahan, Dublin; Evelyn Mabel Clarke, Celbridge; (Robert St. Clair Adamson, Sligo=Robert Toal, Dublin); Mary Rose Nolan, Limerick; Roland John Savage Lynch, Cavan; John Gayton Walsh, Waterford; William Keogh, Londonderry; (Sylvester Condron, Dublin=David Stinson, Ballymoney); John Lawrence McKeown, Belfast; James Devany, Roscrea; Jeremiah O'Riordan, Cork; William Martin, Belfast; Michael Joseph Conlan, Dublin. Twelve candidates were rejected.

Guardians and Drug-supplies.

The Strokestown Guardians have accepted the tender of Boileau & Boyd for drugs and appliances at 17½ and 21½ per cent. respectively off list prices.

At Cootehill Board of Guardians last week Connor & Son, Newry, were declared contractors for medical and surgical appliances at 21½ per cent. off list prices, and Boileau & Boyd, Dublin, for medicines at 24 per cent.

The Local Government Board have, under the special circumstances, sanctioned the giving of the contract for the supply of medicines by the Mohill Guardians to Mr. A. Burns, Mohill, but they point out that it is not to form a precedent. Some of the Guardians said that in view of the saving in the returns of empties they are saving more for the ratepayers than the mere difference in cost between Mr. Burns's tender and the lowest.

Brevities.

At the annual meeting of the Vestry of the Cathedral of Belfast on April 8, Mr. I. W. Nicholl, Ph.C., 25 High Street, Belfast, was elected a diocesan synodsmen and select vestryman for the cathedral.

Campbell & Co., druggists, 52 Great Edward Street, Belfast, whose premises are required by the City Corporation for street-widening purposes, have taken new premises, 41 Cromac Street and 2 Hamilton Street.

At Newtownards on April 9, in the case in which Samuel Heron was committed to the assizes on a charge of murdering his stepson, William Quinn, one of the closing witnesses called by the Crown was Dr. Robert M. Bronte, Dublin, examiner in chemistry Apothecaries' Hall Ireland, late examiner in chemistry Pharmaceutical Society Ireland. He gave evidence as to bloodstains on the clothing.

At the meeting of Cookstown Board of Guardians on April 10, the Clerk read a letter from the analyst, Mr. R. F. Blake, thanking the Board for electing him for another year, and stating that the duties of analyst would be more troublesome and expensive, as the appliances used are made in Germany, and could not now be obtained. He hoped that British scientists would find a means of producing the apparatus in this country.

On April 7 considerable damage was done to the premises of Mr. James Simms, chemist and druggist, Bridge Street, Banbridge, by an outbreak of fire in the upper part of the shop, where a large number of packing-cases were stored. The smoke rapidly increased in volume, adding greatly to the difficulty in locating the fire. A copious supply of water from the town main was poured into the premises. It was ascertained that a barrel of corks had been smouldering for a considerable time, and that this had given rise to the smoke. The damage was principally caused by water.

Scottish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Aberdeen and the North.

A fire which occurred in the cellar of the pharmacy of Mr. Hugh M. Dugan, 275 Holburn Street, Aberdeen, on April 8, was speedily extinguished by the fire-brigade, but considerable damage was done by smoke.

At the Minor examination recently concluded at Edinburgh ten candidates were presented from the School of Pharmacy of Robert Gordon's Technical College, Aberdeen, of whom nine passed. This is the largest number of students from the school who have qualified at one time. Since the establishment of the school, through the influence and work of the Aberdeen Pharmaceutical Association, whose own educational classes it replaced, 162 students have passed the Minor examination, while four have obtained the Major diploma.

Aberdeen Parish Council have resolved, as requested, to grant an additional 10 per cent. on last year's price (2s. 3d. per head) for dispensing for the outdoor poor for the year commencing May 16, 1915. The contractors will be the same as in 1914, viz.: H. Thompson, 46 Commerce Street; J. R. McHattie, 210 Gallowgate; R. C. Cardno, 546 Great Northern Road; W. Macpherson, 75 Spital; James Spence, 138 Rosemount Place; J. M. Birnie, 361 Holburn Street; and A. P. Wallace, 96 Victoria Road. With reference to the drugs to be supplied to old-age pensioners who are placed on the outdoor roll of the parish for medical relief, it was resolved to allow the dispensers ordinary retail prices, with 10 per cent. discount.

Dundee.

It is understood that there is a considerable stock in Dundee district of the chemical obtained from the "Bear" for relief of headache—i.e., phenacetin.

A window of Boots' shop in Reform Street was broken last week by a travelling advertising-board on wheels being upset by the wind when passing.

Monday, April 12, was spring holiday in Dundee. Was it in case the day should be wet and time hang heavy on chemists' hands that the forms for March National Insurance accounts were handed in at the week-end?

Edinburgh.

Most of the pharmacies in Edinburgh and Leith will be closed on the spring holiday, April 19.

A pharmacy in the "Old Town," with a pharmaceutical history going back at least a hundred years, is "to let."

Some local chemists, in anticipation of a big increase in the duty on alcohol, have laid in stocks of rectified spirit.

Fife.

Mr. John Carmichael, chemist and druggist, Leslie, has closed his branch shop at Kinglassie.

Easter business has been practically as good as in former years, and the effect of high railway fares has been merely to localise capital. Photographic goods, perfumes, etc., have been in demand as Easter gifts.

"Equine customers" have been a source of much revenue to chemists in military training centres. Curb, sprain, and lameness are the general troubles, and one finds the recipes in the *C. & D.* series of books very useful in dealing with these. The "Tommies" are very fond of their horses, and treat them to an occasional bath of Sanitas or other disinfectant and antiseptic washes.

ALL "MINOR" STUDENTS should get a copy of "Minor Experiences," published by the *C. & D.* at 2s. 6d., by post 2s. 8d. It contains questions and papers given at more than fifty examinations.

INTERNATIONAL CONGRESS OF APPLIED CHEMISTRY.—Owing to the European war, which will make it impossible to hold this Congress at Petrograd this year as intended, it is suggested that it be held instead at New Orleans.

South African News.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa.

Cape Province.

SCHOOL OF PHARMACY.—It is interesting to note that of the ten candidates who entered the classes this session, seven have left for G.S.W.A., and will be unable to resume their studies for the present. At the time of writing word had been received that they are all well.

PERSONAL.—Mr. Merry, who until recently was the manager of Lennon, Ltd., retail branch in Adderley Street, has bought the business of the late Mr. Russo, Hanover Street.—Mr. Astell Willson was in Cape Town when our correspondent wrote, but was leaving for Johannesburg on March 27.

STOCKS are getting scarec out here, writes our Cape Town correspondent. In a great measure it is owing to no cargoes coming forward from England. For instance, the *Dunvegan Castle*, due on March 30, has only 600 tons on board, although her carrying-capacity is about 5,000. It is stated that this shortage is owing to the refusal of the dockers in London to put in overtime, and in consequence much inconvenience is caused here.

SHOP-HOURS ORDINANCE.—At a meeting of the Kimberley Chamber of Commerce on March 8, Mr. Gasson, M.P.C., addressed the Chamber on the draft Shop-hours Ordinance. In the course of his remarks he referred to the active steps taken by the Pharmaceutical Society of the Cape Province to obtain the opinions of chemists upon the Ordinance. So far as he could gather, the hours of chemists mentioned in the Ordinance were based upon those replies. In Kimberley chemists have got into the habit of keeping open very late, and for a long time on Sundays, and he thought most people would admit such long hours are unnecessary. It is possibly due to the fact that Kimberley is a mining town, and men frequently go to a doctor and chemist when they have finished the day's work. No doubt arrangements could be made for these equally as for those shopping in other lines. Many people are affected besides those in the mines, but it is not a serious factor, and the doctors might arrange their consulting-hours so that people could have their prescriptions dispensed at a reasonable hour.

Orange Free State.

TAXATION INCREASE.—An increase of 5 per cent. *ad valorem* duty has been placed upon all goods formerly admitted at 15 per cent., and an income-tax imposed of 1s. in the pound on incomes exceeding 300*l.* per annum is proposed. The exempted income is now reduced from 1,000*l.* to 300*l.* and the tax doubled.

BUSINESS CHANGES.—There have been several changes in business of late. Lennon, Ltd., have closed their branch at Glen Road, Bloemfontein. The late manager, Mr. Haddon, is being transferred to a branch in Cape Province.—The Free State Pharmacy in the Market Square has also been closed, and the stock removed to Gardner & Co.'s, Ltd., headquarters at Port Elizabeth.

MEDICAL AND PHARMACY COUNCIL.—Mr. McMurray's departure from Bloemfontein will create a vacancy on the Medical and Pharmacy Council. He was the elected representative of the Free State chemists on the Council. Mr. F. Carter and Mr. H. H. Greenwood are mentioned as likely candidates to contest the vacant seat. Mr. Carter has previously had experience of the work, having acted as a substitute for Mr. Dinwoodie, one of the nominated members, some few years back, when Mr. Dinwoodie was absent on leave.

THE WAR.—Hundreds of men are away from here with the Union Forces in German South-West Africa, writes our Bloemfontein correspondent. The 5th Mounted Brigade (Brand's Horse) was the last body to leave, about ten days ago. As a consequence the town is dull, and business has been quiet. A revival of business is, however, anticipated, as the Agricultural Show is to be held in the middle of April, when a large number of visitors from the country is expected to arrive in the capital.—Goods are arriving very slowly from England, orders given five months ago are not yet to hand, and as a consequence many lines are unobtainable, and others are much dearer.

PERSONAL.—Three Bloemfontein chemists are now at the Front. Mr. J. Reid (of Heynes Mathew, Ltd.) is staff-sergeant compounder with the 7th Mounted Brigade Field Ambulance; Mr. Doel, of the S.A. Railway Dispensary, and Mr. A. McMurray (late of Petersens, Ltd.), who has joined

the S.A. Medical Corps, with the rank of staff-sergeant compounder.—Mr. A. McMurray, who has been in charge of Petersen's, Ltd., branch here, has resigned, and is succeeded by Mr. H. H. Greenwood, who has represented this firm on the road in the O.F.S. for the last ten years. Mr. Mure succeeds Mr. Greenwood as travelling representative.—Mr. Urquhart, of Lennon, Ltd., is in hospital with appendicitis. His many friends wish him a speedy recovery.

French News.

(From the "C. & D." Paris Correspondent.)

MME. CURIE'S MOTOR ACCIDENT.—Mme. Curie was fortunately only slightly injured in the accident reported last week (*C. & D.*, p. 36). She was able to be present at a lecture at the Paris Faculty of Sciences the same evening. The mishap occurred in the Forest of Senart, not far from the scene of the famous "Lyons Mail" tragedy, and came about through the chauffeur of the car trying to avoid a market-cart. The motor-car was completely overturned. Mme. Curie was returning from the Forges Hospital, near Montereau, with radiograph negatives, and was more concerned about the safety of these than of herself. She was conveyed to the nearest railway station by the owner of another motor-car, who was a distinguished official of high rank.

CHEMISTS IN KHAKI.—The question of non-combatants in khaki has been the subject of a lively correspondence in the columns of the Parisian "Daily Mail," and some writers have lavished trenchant sarcasm on "chemists," etc., for assuming uniform. I had recently an opportunity of discussing the matter with a well-known Anglo-Parisian pharmacist of British nationality. "Being one of the few," he said, "who have persistently refused to wear khaki or uniform of any kind, I can speak without prejudice on the matter. These sarcasms are quite beside the mark. To circulate freely in war-time, a uniform is not so much desirable as absolutely necessary. I had frequent occasions, at a time when the Germans were nearer Paris than at present, to go to country ambulances, not as an amateur Red Cross man, but simply to deliver goods, take orders, etc.—briefly, on strictly pharmaceutical business. I wore plain clothes, and though I practically covered myself with Red Cross badges, I was so often challenged, and at times absolutely refused passage, that I consider the wearing of khaki is practically obligatory on non-combatants like chemists, etc., who are connected with army work."

THE THRIFT OF THE FRENCH.—Many—in fact, most—of the British pharmacists in Paris have, in addition to their retail business, some article which they manufacture in France and sell wholesale; they are consequently employers of skilled and unskilled French labour. The mobilisation deprived them of all men of army age at very short notice. "Now, you would think, wouldn't you," said one of them to me, "that the wives of these men, receiving, as they do, only about a shilling a day from the Government, would have come round and worried me for money on account and so on? Well, do you know, I have had just one demand for a small sum, and that from a poor woman whose husband had been shot in the trenches. And I employ, as you know, a fair number of hands of all kinds." "Then they live on credit?" I suggested. "Credit!" he replied with a fine touch of scorn in his voice. "There's no credit given since the mobilisation, and least of all to working men's families. No; all France is just now living on savings. All these people have money put by. Comparisons are proverbially odious, but supposing conscription were established in England, I wonder how many working-class women would be living on savings many months after mobilisation occurred. These are the little things which make us Anglo-Parisians, who know the French best, respect and like them and smile when a 'frivolous' nation is talked about."

CLOVES.—The Zanzibar export duty on clove-stems was reduced from 25 per cent. to 10 per cent. *ad valorem* from November 16, 1914.

Legal Reports.

Trade Law.

Baking-powder.—At Rollesby, Norfolk, on April 6, Angelina Lingwood, grocer, Hemsby, was fined 1*l.* for selling baking-powder adulterated with 40 per cent. of alum. Defendant said she did not know the composition of the baking-powder, and had stocked better powder, but had been unable to sell it.

Blowpipe Burners.—At the Patent Office on April 14, before Sir Cornelius Dalton, an application, under the Patents, Designs, and Trade-marks (Temporary Rules) Acts, was made by C. Melin & Co., 7 India Street, London, E.C., for a licence to work patent 10446 of 1911, belonging to Paul Bornkessel, Berlin. Mr. Ingham explained that applicant is the sole selling-agent for the United Kingdom and the Colonies for the Bornkessel blowpipes, an invention by which an air and oxygen jet of great heat is obtained for soldering and melting metals. It is proposed to get the jets made in this country, but it would cost about twice what was paid for the German article until the manufacturers had obtained practice in making. Mr. Andrews, on behalf of the patentee, said he thought that the manufacturers should be associated with the applicant if a licence were granted. He also suggested that as applicant was not the manufacturer the royalty payable should be more than the 5 per cent. offered. Sir Cornelius Dalton said that was no reason for increasing the amount of royalty. A report will be made to the Board of Trade in the usual way.

Trading with the Enemy.—In the City of London Court, on Tuesday, April 13, Mr. Ernest Hamburger, proprietor of Gloride Leather-cloth Mills, 7 Broadway, Ludgate Hill, E.C., sued H. M. Sidey & Co., Wall Street, Ockendon Street, Islington, for 1*l.* 0*s.* 4*d.* for sanitary-paper supplied in the way of trade. Defendant (Mr. Sidey) said the plaintiff is an alien enemy, as he is an Austrian. He considered it his duty to withhold payment of the money sued for. The goods were obtained in June. Judge Rentoul, K.C., pointed out that that was before the war. There would have been no defence but for the war. Defendant said he was willing to pay the money into court. Judge Rentoul thought it a pity that the defendant had not done that. After hearing plaintiff's manager, who stated in evidence that the Home Office informed him that under Par. 6 in the second Proclamation as to trading with the enemy he did not require a licence to trade, the Judge said that the war did not affect the transaction itself. It only affected what was done with the money. He found for the plaintiff, and ordered the money, when paid, to remain in court.

A Damaged Showcase.—At Winchester County Court on Wednesday, before Judge Gye, Murray & Maconachie, Ltd., chemists, of City Road and High Street, Winchester, sued Edward and Robert Vale, trading as Vale Bros., Weston-super-Mare, for the recovery of 20*l.*, damages for breach of contract. The plaintiffs' case was that they bought a showcase from the defendants, and it was sent to Winchester, but on arrival it was found that the glass back was broken. They therefore refused to accept delivery, and sent it back. The defendants thereupon declined to receive it, and it remained in the possession of the G.W.R. Defendants had successfully brought an action to recover the cost of the case, and the plaintiffs now contended that they were entitled to damages in consequence of defendants not having fulfilled their contract. It was alleged that, in addition to being damaged, the case was not of the size specified. The point of the action was whether the showcase should have been sent at insured risk or not, and it was stated that it was sent not at the lowest risk, but not on the insured scale. Defendants contended that if there was any liability at all it was with the railway company, the showcase being properly packed. It was pointed out that the railway company were not liable, as the value of the consignment was not disclosed, and their regulations safeguarded them on all consignments of this nature over 10*l.* His Honour said that an action might lie against the railway company if it could be proved that it was properly packed, and that the company were negligent and broke it. It was held that, as the showcase was sent carriage forward, delivery took place at Weston-super-Mare, and judgment was entered for the defendants, with costs.

One Engagement or Two?—At the Cheltenham County Court, before Judge Ellicott, on April 10, Waite & Chambers, chemists and druggists, Suffolk Lawn, sued Mary Wellington, certificated nurse at the Suffolk Hall Red Cross Hospital, for 15*s.*, being 7½ per cent. commission on salary of 2*l.* 2*s.* a week. Nurse Wellington, when disengaged, had consulted Mr. John Chambers as to getting cases, and

entered into an arrangement in which she undertook to pay him commission on her salary on the scale named so long as she remained in charge of any case which she may have secured through his recommendation. He accordingly recommended her to the Cheltenham Suffolk Hall Red Cross Hospital, and the pay was to be 7s. a day. At the end of the week she was paid a cheque for 2l. 2s., and, in view of the expected return of the nurse whose place she was temporarily filling, was discharged. Mr. Chambers cashed the cheque, deducting his commission of 3s. Four days later, the ailing nurse not returning to her post as had been anticipated, Nurse Wellington was sent for by the Commandant and engaged permanently. She declined to pay Mr. Chambers further commission on the ground that the regular engagement was not due to Mr. Chambers, but was an independent transaction between herself and the Commandant. The Judge declined to take that view. He could not hold that there were two separate engagements. Her discharge after the week's temporary duty was given solely in the belief that the nurse whose place she was for the time taking was coming back. She did not, however, come back, and defendant was therefore immediately engaged on precisely the same terms and for the same duties. It was a continuous engagement, and there must be judgment for the plaintiffs.

Limited Companies.

New Companies Registered.

P.C. means Private Company and R.O. Registered Office.

GITTINGS & KIVELL, LTD. (P.C.).—Capital 3,000l., in 1l. shares. Objects: To carry on the business of opticians, etc. The first directors are E. E. Gittins and A. R. Kivell. Secretary, S. J. Sulston. R.O., 4 Broad Street Place, London, E.C.

CASTLE CHEMICAL CO., LTD. (P.C.).—Capital 4,000l., in 1l. shares. Objects: To carry on the business of manufacturers and vendors of and dealers in chemicals, disinfectants, medicines, etc. The first directors are R. P. Shaw and A. M. Lindsay, M.A. R.O., 160 Hope Street, Glasgow.

J. A. STEVENS & SON (SHEFFIELD), LTD. (P.C.).—Capital 12,000l., in 1l. shares. Objects: To take over and carry on the business of J. A. Stevens, horn and bone merchant, 68 West Street, Sheffield. The first directors are J. A. Stevens (chairman and managing director) and H. G. Stevens.

WALFAMUR CO., LTD. (P.C.).—Capital 20,000l., in 1l. shares. Objects: To carry on the business of manufacturers of and dealers in washable distempers, water and oil colours, varnishes, paints, enamels, pigments, paint bases, white and other leads, oils, inks, stains, brushes, glues, pastes, etc. R.O., Hollins Paint-works, Darwen.

AIAX CHEMICAL-WORKS, LTD. (P.C.).—Capital 5,000l., in 1l. shares. Objects: To carry on the business of manufacturing and analytical chemists, dealers in chemical and other substances and preparations, etc. H. W. Rymer, chemical manufacturer, Westcliff-on-Sea, is one of the first directors. R.O., River Side Works, Hertford Road, Barking.

ELLIS CHEMICAL CO., LTD. (P.C.).—Capital 7,000l., in 1l. shares. Objects: To carry on the business of manufacturers of and dealers in chemicals, oils, turpentine, benzol, motor-spirit, colours, dyes, soaps, waxes, greases, grindery, inks, pastes, starches, etc. The subscribers are: H. Ellis and B. Ellis, Avenue Road, Stonegate, Leicester.

BRITBRONZE, LTD. (P.C.).—Capital 1,000l., in 1l. shares. Objects: To carry on the business of manufacturers and factors of, agents for, and dealers in metal, graphite, magnesium, chemical and colour powders, metal leaf, metal-alloy castings, etc. The first directors are L. E. Wooster and J. Bennett. R.O., 22 Hilda Road, Brixton, S.W.

KLENO MANUFACTURING CO., LTD. (P.C.).—Capital 5,000l., in 1l. shares. Objects: To take over and carry on the business of F. W. Drake and W. B. Rogers, Cambridge (the "Kleno Manufacturing Co."). The first directors are F. W. Pitt, F. W. Drake, W. Stevens, T. H. McClelland, and T. Henry. R.O., 5 Wellington Terrace, Notting Hill Gate, W.

PACIFIC COCONUT OIL CO., LTD. (P.C.).—Capital 21,000l., in 20,000 ordinary shares of 1l. each and 20,000 deferred shares of 1s. each. Objects: To carry on the business of producers, refiners, storers, suppliers, and distributors of coconut oil and products, manufacturers of cake, cattle-food, and feeding and fattening preparations, etc. R.O., 40 Chancery Lane, London, W.C.

PERFECT CLOSURES, LTD. (P.C.).—Capital 1,000l., in 1l. shares. Objects: To take over certain patents for inventions relating to improvements in metal capsules for bottles

and other receptacles, and to adopt an agreement with T. H. Furneaux, 121 Minorities, E.C., as liquidator of the Dan Patent Crown Cork (Foreign) Syndicate, Ltd. The first directors are H. R. Wansborough and W. J. Robinson.

Company News.

PARKE'S DRUG-STORES, LTD., announce the payment of the interim dividend on the preference shares for the half-year ended March 31, 1915, at the rate of 6 per cent. per annum, less income-tax.

BORAX CONSOLIDATED, LTD.—The directors announce a dividend at the rate of 6 per cent. per annum, less income-tax, on the preferred ordinary shares for the half-year ended March 31, 1915.

Bankruptcy Report.

Re Wm. George Hornsey, 191 Romford Road, London, E., lately carrying on the business of a chemical-dealer at 101 Vansittart Street, Forest Gate, E.—The receiving order in this case was made on March 20 at the instance of a creditor, and on April 9 the first meeting of creditors was held at the London Bankruptcy Court, before Mr. J. T. Garton, Official Receiver. Proofs of debt to the amount of 622l. having been called over, the Chairman said he had sent an inspector to 101 Vansittart Street, and he was informed there was no property of any description at that address belonging to the debtor. The household furniture was valued at 140l., but was claimed by the debtor's wife as being her separate property. The debtor asked for an adjournment, with a view to placing an offer before the creditors. He was, however, unable to state anything definite as to the terms of the proposal, and the case was left in the hands of the Official Receiver to be wound up in the ordinary course of bankruptcy.

Gazette.

Partnerships Dissolved.

CROWE, L. W., M.D., and O'NEILL, C. S., M.D., Ashley Road, Hale, Chester, general medical practitioners, under the style of Drs. Crowe & O'Neill.

FOYLE, G. WILLIAM, and FOYLE, G. WESTROPP, 2 Fairbank Street, East Road, Hoxton, wholesale drysalters and general merchants, under the style of Foyle & Co.

PETERS, A., and STAMMER, A. W., 215 Glossop Road, Sheffield, opticians, under the style of Leadbeater & Peters.

Bankruptcy Acts.

RECEIVING ORDER.

REINECKE, J. J., 13 Llwynpia Road, Tonypany, lately of 2 Bay View Crescent, Swansea, herbalist.

Joint Stock Companies.

Notice is given in the "London Gazette," pursuant to Section 242 (3) and (4) of 8 Edw. 7, ch. 69 (Companies (Consolidation) Act, 1908), that, at the expiration of three months from April 9, the names of the undermentioned companies will, unless cause is shown to the contrary, be struck off the Register, and the companies will be dissolved: Alliance Chemical Co., Ltd.; Cannan's Soap-works, Ltd.; Sandow Cocoa, Ltd.; and Swansea Oxalic Acid Works, Ltd.

Business Changes.

Authenticated notes are inserted without charge if not in the nature of advertisement, and subject to Editorial approval.

MR. A. B. ARNOTT, chemist and druggist, Cowdenbeath, has purchased the business of Mr. John Gray, Lumphinnans, Fife, and will carry it on as a branch.

MR. HARRY E. DEWHURST, chemist and druggist, manager of the Accrington branch of Boots, Cash Chemists, Ltd., has been appointed to a similar position at the Douglas branch.

MESSRS. WILLIAM DUFF & Co., merchants, 113 Cannon Street, London, E.C., announce that for family reasons they have converted their business into a private limited company. Mr. Alan S. Duff and Mr. Charles J. Pledger will act as joint managing directors. Mr. T. H. Price, pharmacist, manager of the chemical department, will be allotted a seat on the board, and Mr. G. M. Gray will be secretary.

Deaths.

Authenticated notices are inserted without charge.

BROWN.—At 93 Darwin Buildings, London, S.E., on March 30, Mr. Joseph Robert Brown, chemist and druggist, aged forty-one.

DOTESIO.—We have received intimation of the death of M. L. E. Dotesio, pharmacist, formerly of 47 Rue Vivienne, Paris, and latterly of the Sociedad Anónima Los Pirineos, Guaruinea, Spain. He was for many years a subscriber to the *C. & D.*

FISK.—At 4 Dorset Square, London, W., on April 10, Mr. Fred Milton Fisk, F.R.G.S., European manager for Parke, Davis & Co., aged fifty-eight. Mr. Fisk had for some months been in failing health; an old-standing cardiac

affection was aggravated by an attack of pneumonia which he had in the South of France two years ago, but he fought against it with that quiet courage which was characteristic of him, and it was only a week before his death that he was persuaded to enter a nursing-home, where last Saturday at a quarter past six he passed away quietly in the presence of his brother and business associate, Mr. Harry J. Fisk. The career thus closed was one of the most notable in the past quarter-century's history of the drug-trade. Mr. Fisk was a native of Adrian, Mich., U.S.A., and after experience in a retail pharmacy he entered, as a young man, the employment of Parke, Davis & Co., Detroit, when the business was still of comparatively small proportions. He



MR. F. M. FISK.

grew with it, representing the firm at home for some years, until in the 'eighties he had so proved his business abilities, organising powers, and innate resource that he was deputed to take a world journey for the firm. In the course of this he studied thoroughly the conditions of pharmacy in Australia, India, and other countries in the East, the result being far-seeing suggestions regarding the development of the firm's business, which were adopted by headquarters. One of the outcomes is that all Australian business is done direct with Detroit, the firm thus being among the pioneers of America-Australian trade *via* the Pacific. Mr. Fisk visited Europe, and made a study of business conditions on the Continent and in this country before returning to America. The firm's business here up to 1890 had been done through agents, and fluctuated. In 1884 it had been checked somewhat by the Board of Inland Revenue treating their fluid extracts as "foreign medicines" within the meaning of the Medicine-stamp Acts, and insisting on payment of stamp-duty as well as spirit-duty. Mr. T. P. O'Connor, M.P., took the matter up in the House of Commons, with the result that the Chancellor of the Exchequer (Mr. Childers) decided to treat foreign medicines administratively like British medicines, so that the P., D. & Co. fluid extracts and other preparations, being neither proprietary nor held out as remedial, were freed from duty. By the end of 1890 the business in this country was of such a nature that it was worth conserving and developing through the firm's own resident manager, and accordingly Mr. Fisk came over here and took an office at 43 Holborn Viaduct, London, E.C., in January 1891. He was accompanied by his brother, Mr. Harry J. Fisk (who had also been trained in the Detroit headquarters) and a typist. Now that the business here is one of the largest manufacturing and distributing concerns in the British drug-trade, it is of interest to recall what Mr. Fisk told our representative at that time. "What we have come here for," he said, "is merely to look after our interests in Europe. We do not propose to carry stock in the meantime. We

have always had a certain amount of business in this country, and we are convinced from what has been done with little push that more can be done by being on the spot to answer inquiries. . . . Fluid extracts are our special line. These are more popular in the States than here. They have taken the place of tinctures with us, but prescribers here have yet to be educated into their use." This last remark was, as Mr. Fisk told us afterwards, an echo of the friendly greeting and welcome which he received from the late S. M. Burroughs on his arrival. Mr. Fisk's abilities as a business man are best indicated by the growth of the branch which he thus established; indeed, he was a man whom one could judge only by his actions, for he did not talk of what he had done or intended to do. The work that he and his brother thus commenced bore such fruit that towards the end of 1894 office-premises were taken at 24 North Audley Street, W., with a factory and warehouse of four floors in North Row adjoining. After fifteen years there the business came back to the City, the building 111 Queen Victoria Street, opposite the College of Heralds, being secured for offices and distribution warehouse. Manufacturing had so grown that generous provision for its future was impressed upon headquarters by Mr. Fisk, and he suggested that they should purchase Heston Farm, Hounslow. This was done, and the factory equipment transferred to existing buildings there, where manufacturing was continued until the first of eight new factory blocks which the ground will hold was opened in 1908, and a second of double the size in 1913. The City place again became too small, and in September 1907 this branch of the business was removed to a block of buildings adjacent to Regent Street, W., at the corner of Beak and Great Pulteney Streets. Besides directing this development in every department, Mr. Fisk had been bringing together a staff of over seven hundred, many of them pharmacists and specialists, and elaborated a system of representation at home and of agencies on the Continent, which include every capital in Europe. The latter gave him not only scope for his organising powers, but opportunity for the travel which he loved so well, and which took him early into the membership of the Geographical Society. Besides his business success, Mr. Fisk attained the highest position possible in the American Colony here, being Chairman of the American Society in London, an office which has been held by Mr. J. M. Richards, Mr. H. S. Wellcome, and others connected with the drug-trade. In that capacity he presided at the Independence Day Banquet on July 4 last, when leading public men of the day were around him, and he acquitted himself as a host with quiet charm and dignity, his speeches in keeping with the traditions of his office. He was also one of the founders of the American Luncheon Club, which meets in the Savoy Hotel every Friday. After the death of Mr. John L. Griffiths, its first President, Mr. Fisk was called upon to preside periodically, and it was largely through his influence that Dr. Page, the American Ambassador, was induced to take the presidency. Another office in which Mr. Fisk did excellent service was the secretaryship of the London branch of the American Navy League, and he took a keen interest in our own Navy, supporting the movement which led to the attainment of its present efficiency. He was also an American Mason of Adrian Lodge, Adrian, Michigan, became a joining member of Columbia Lodge, London, founder of America Lodge, a Knight Templar in the Kemeys Tynte Temple Cressing Preceptory, and a Rose Croix in the King Edward VII. R.C. Chapter. Owing to the numerous and various calls on his time, he did not go beyond the minor offices in any of the Orders to which he belonged until about three years ago, when he decided to devote more time to the work, and at his death was in a high office in the King Edward VII. Rose Croix Chapter. For more than twenty years he had resided in Hyde Park Hotel, Knightsbridge, and had there given on several occasions exquisite dinners of a semi-public and international character to scientific men connected with medicine and pharmacy. A wave of sadness went over the hotel on Sunday morning when it became known that he would not return to it, for he was universally liked by the residents and staff, who counted him as a friend. Although a reserved man, he had an undercurrent of warm affection for those with whom he was associated, and this was reciprocated—a remark which specially applies to the P., D. & Co. staff in London. Many a kind deed did he in business and private, and he leaves hosts of friends in all ranks. The body was cremated at Golder's Green Crematorium on Tuesday afternoon, the service being private, as the ashes are to be sent to Adrian for burial in the family grave there. On Wednesday a memorial service was held in St. Paul's Church, Knightsbridge, when a congregation of over three hundred attended, including Mr. and Mrs. H. J. Fisk, the American Ambassador (Dr. Page) and one of

the Embassy staff, Vice Consul-General Richard Westacott, Count Ward, Sir John C. Cockburn, K.C.M.G., Mr. R. Newton Crane (Chairman of the Navy League of the United States), Mr. F. C. Van Duzer (Treasurer of the American Society in London), Mr. J. Morgan Richards, jun., Mr. L. O. Johnson, Mr. Walter Blackman, Mr. George A. Mower, Mr. F. E. Powell, Mr. and Mrs. Van der Bergh, Mr. and Mrs. J. G. Conrad, Dr. Mann, Dr. C. R. Stewart, Mr. Gordon Selfridge, Mr. J. Benson Kennedy, Mr. Robertson Affleck, Mr. E. T. Carpenter, Mr. O. H. Balwin, Mr. R. C. Brown (superintendent of the Hounslow Laboratories) and Mrs. Brown, Mr. George W. McKinley, Mr. H. B. Fragnani, Mr. A. C. Chapman, Mr. Lionel Cowper, Mr. Martin (Armour & Co., Ltd.), the Master of the Columbia Lodge and representatives of other Masonic bodies, and members of the staffs of the firm, as well as the heads of all departments in Hyde Park Hotel. The arrangements for this service (which was choral and most impressive) were made by Mr. Fisk's intimate friend, Mr. A. E. Holden, who with Mr. Holloway and Mr. Maben, of the Beak Street staff, acted as ushers. The beautiful flowers received were placed in front of the chancel. They included tributes from the societies and lodges with which he was connected, his brother and sister-in-law, Mr. Frank G. Ryan (Detroit), Mr. Van Duzer, Mr. Holden, Mr. and Mrs. Brown, and many other business and personal friends.

HAWKSWORTH.—At Gainsborough, on March 29, Mary Catherine, wife of Mr. John L. Hawksworth, chemist and druggist, late of Daventry, aged sixty-nine.

HINDLE.—Suddenly, at Southport, on April 7, Mr. T. R. Hindle, formerly in business as a chemist at Lower Broughton, Salford, aged sixty-three.

LOEFFLER.—The "Mittags Zeitung" (Berlin) announces the death of Professor Friedrich Loeffler. Dr. Friedrich Loeffler was born at Frankfurt, and his name is one of the most famous in the annals of bacteriology. After several years of research he gave, in 1884, the first systematic description of a bacillus discovered nine years before by Professor Klebs, and vaguely associated by him with diphtheria. This bacillus, now known as the Klebs-Loeffler bacillus, is the primary cause of diphtheria, and as a result of Loeffler's work and later researches the mortality from diphtheria has been reduced to an insignificant figure. Professor Loeffler was aged sixty-two.

WALKER.—At Morstham House, Merstham, near Redhill, on April 8, Mr. Andrew Walker, aged seventy-seven. Mr. Andrew Walker was well known as one of the founders of Bovril. He started life in an insurance office in Edinburgh, and afterwards migrated to Manchester, where he was engaged for many years in the shipping-trade to the Far East. Over twenty-five years ago he came to London, and became associated with the late Lawson Johnston, inventor of bovril. They started a small company, and Mr. Walker was responsible for the business side of the undertaking. He retired from the position of managing director of Bovril, Ltd., three years ago. He is survived by a widow and eight children. Two of his sons hold commissions in the Army.

WHIGHAM.—At 74 Chaplin Road, Wembley, on April 9, Mr. Robert Laing Whigham, Ph.C., aged fifty-six.



MR. R. L. WHIGHAM.

Whigham had recently retired from the old-established business at 22 Brook Street, W., which he had purchased from Mr. William Bastick, originator of the formula for tr. quinin. ammon., and which was founded in the reign of George III. The goodwill and prescription-books of this business were acquired by Mr. A. R. Melhuish, Ph.C., Duke Street, Grosvenor Square, as the lease of the Brook Street premises is expiring, so that this historic pharmacy of six reigns will cease to exist. Mr. Whigham was a Past-President of the Western Pharmacists' Association of London, and was well known to chemists throughout the country, having attended many meetings of the British Pharmaceutical Conference. He was born on the Whittinghame estate (now Mr. A. J. Balfour's), and while young his parents removed from Scotland to Wales. He was educated at the Cardigan Grammar School, and passed the Pharmaceutical Preliminary examination at the top of the list for England and Wales. He served his apprenticeship with the late

Lewis Evans, Cardigan, with whom he remained some time as an assistant; then came to London, and was for seven years with Mr. R. A. Potts, 62 South Audley Street, W. He studied at Messrs. Luff & Woodlands' school, and passed the Minor examination in December 1880, and the Major in July 1881. It was shortly after this that he purchased the Bastick business, and he latterly had a branch at Wembley. Mrs. Whigham and a son and daughter survive him. The son, John Richard Menzies Whigham, after a distinguished career at St. Mary's Hospital, graduated as M.B., B.S. at the University of London in 1913, and took the diploma of the Royal Colleges at the same time. He is now serving with the Army in France. The interment took place at the Parish Church, Wembley, on Wednesday, after a service at St. Andrew's Presbyterian Church, which was attended by a large congregation of friends, who thus testified to their admiration and respect. Many of the Welsh Societies and Churches of London were represented, and pharmacists were represented by Mr. Melhuish (President of Western Pharmacists' Association), Mr. Shirlcliffe (Secretary), Mr. Richard Thomas (Upper Baker Street), Mr. Isaac T. Lloyd (Chelsea), and others.

Personalities.

Authenticated notes are inserted without charge if not in the nature of advertisement, and subject to Editorial approval.

MR. PERCY KNOTT, chemist and druggist, has been elected a member of the Bolton Guardians for the North Ward.

MR. GEORGE F. WILD, chemist and druggist, Clarendon Place, Hyde, is serving as a special constable for the duration of the war.

ALDERMAN RALPH SHORROCK, J.P., chemist and druggist, was re-elected an Overseer for Darwen at the meeting of the Town Council on April 9.

MR. ALBERT LARKING, Secretary of the Early Closing Association, has completed thirty-two years' service, having entered upon his duties as Assistant Secretary in April 1883.

MR. R. EDWARD SHORT, Harrogate, has been appointed by Spurway et Cie., Ltd., 14 Bartholomew Close, London, E.C., to represent them in the North of England and in Scotland.

MR. J. A. DALE, chemist and druggist, Stoke-on-Trent, President of the North Staffordshire Chemists' Association, has been nominated for a vacancy on the Stoke-on-Trent County Borough Council.

MR. C. H. LOXLEY, pharmacist, of 178 Northcote Road, Wandsworth Common, S.W., was elected a Warden of St. Michael's Church, Wandsworth Common, at the Easter vestry-meeting on April 9.

MR. A. FORRESTER, of the staff of S. Bowley & Sons, Wellington Works, Battersea, London, S.W., has been presented with a handsome marble clock and side ornaments by his *confrères* on the occasion of his approaching marriage. The presentation was made in appreciative terms by Mr. T. H. Hore, chief of the staff.

MR. HARRY J. FISK, who has been associated with the London branch of Parke, Davis & Co. since its foundation in 1891 by his late brother,

Mr. F. M. Fisk, latterly as assistant manager, has by cable from Detroit been appointed to succeed him in the management, a position for which his training and intimate knowledge of the branch and its ramifications peculiarly fit him. While Mr. Harry Fisk assisted his brother in all departments of the business, he has given special attention to the erection and equipment of the factories. He started the first one in North Row, and his architectural skill and knowledge of engineering and structural work have had full scope in the planning and building of the factories at Hounslow, as well as in the arrangement of the offices and warehouses of the branch. He drew the plans of the Hounslow buildings, and in his leisure time is fond of landscape painting and motor-ing. He is a warm P.A.T.A. supporter.



MR. H. J. FISK.

MR. JOHN J. SHAWYER, J.P., chemist and druggist, Swindon, has been presented with an illuminated address and an enlarged photograph of himself in his mayoral robes in recognition of his services as Superintendent of the Tabernacle Baptist Sunday School, Swindon. Mr. Shawyer has retired from the position after eighteen years' service.

MR. J. P. GILMOUR was not born in Australia, as stated last week, but in Glasgow. His parents took him to Australia in 1865, and returned in 1876, when his school education was finished, and he became a railway telegraph clerk. In 1879 he was apprenticed for five years to the late Joseph A. Clarke, herbalist, chemist, and dentist, London Street, Glasgow, and in 1884 became an assistant to the late Alexander Kinnimont, with whom he remained until 1891, when he was appointed dispenser at the Victoria Infirmary, Glasgow. Mr. Gilmour remained there after passing the Minor examination until 1901, when he started business in Cathcart Street.

A POSTHUMOUS WORK by the late Dr. J. Reynolds Green, F.R.S., has recently been published by J. M. Dent & Sons, Ltd. It is "A History of Botany in the United Kingdom from the Earliest Times to the End of the Nineteenth Century." The work was not completed before Dr. Green died, and has been seen through the press by his colleague and friend, Professor Harvey-Gibson. A review of it by "J. B. F." in "Nature," after pointing out imperfections, says: "We may recognise that Green has left us a book of permanent value—a lively impression of the services to science, as well as of the personalities, of a number of his contemporaries. The way in which he has treated this part of his subject shows him as a genial friend; perhaps somewhat apt to overvalue those for whom he entertained feelings of personal affection, but to no one is he either mean or unkind."

Births.

Authenticated notices are inserted without charge.

CLARKE.—At Newport Road, Bedwas, on April 5, the wife of F. Clarke, chemist and druggist, of a daughter.

CUMMINS.—At 16 Barker Street, Harpurhey, Manchester, the wife of James Cummins, chemist and druggist, of a daughter.

Marriages.

Authenticated notices are inserted without charge.

ANCLIFFE-WAYCOTT.—At St. Michael's Church, Devonport, by the Rev. C. R. Teape, M.A., Albert John Ancliffe, chemist and druggist, "Weary's Pharmacy," Stoke, Devonport, to Winifred Sophy, only daughter of Mr. and the late Mrs. Waycott.

DANN-COOP.—At Adelaide Street Wesleyan Church, Blackpool, recently, Rowland George Dann, chemist and druggist, to Mary Annie, eldest daughter of Mr. and Mrs. W. H. Coop, Blackpool.

FRANKLIN-CLARK.—At St. Mary's Church, Bryanston Square, London, W., on April 10, Stanley Franklin, chemist and druggist, 67 Mayfield Avenue, West Ealing, to Ivy Isabel, daughter of Mr. Geo. Clark.

HEWLETT-COLLINS.—At St. Swithin's Church, East Grinstead, by the Rev. Percy Collins, M.A., on April 10, Richard Tanner Hewlett, M.D., F.R.C.P., Professor of Bacteriology in the University of London, to Gertrude Lilian Floyd, daughter of Dr. and Mrs. C. E. Collins, Redsteade, East Grinstead.

Silver Wedding.

ANTCLIFFE-BLOW.—At All Saints' Church, Sheffield, by the Rev. J. A. Kerfoot, on April 13, 1890, Herbert Antcliffe, chemist and druggist, eldest son of Mr. Thomas Antcliffe, Eckington, to Marie, elder daughter of Mr. John Blow, chemist and druggist, late of Whitley Bay.

CANADIAN CHEMICAL MANUFACTURE.—Steps have been taken by the Ontario College of Pharmacy to secure the manufacture in Canada of certain chemicals which hitherto have been chiefly or wholly produced in Germany. A conference regarding the steps to be taken has been arranged between the research committees of the College of Pharmacy and the Toronto Academy of Medicine.

Society of Chemical Industry.

A MEETING of the London Section was held at Burlington House, Piccadilly, on April 12, Professor W. R. Hodgkinson in the chair.

THE LATE MR. LOUIS.—The Chairman referred to the death of Mr. D. A. Louis, an original member of the Society. He did much useful work in furthering the objects of the Society, and always acted with such beautiful tact that he never quarrelled with anybody.

COMMITTEE ELECTION.—The announcement was then made that the following nominations have been made for the Committee: Dr. Bone, Mr. Hewitt, Professor Armstrong, Dr. Crossley, and Mr. Julian Baker. There being the same number of nominations as vacancies, there will be no election. Mr. A. R. Ling (Vice-Chairman) has been nominated as Chairman of the Section. Dr. Messel thought that there should be more publicity as to the elections, so that members might know who had been nominated. The Chairman said the question had been considered by the Committee, and he hoped that before the next year some alteration in the manner of election would be brought about. Mr. Hinckley referred to the difficulties of securing nominations, and Mr. O'Shaughnessy spoke of the improved method adopted at the Birmingham Section.

EXHIBITS.—The British Laboratory-ware Association showed further progress in the manufacture of laboratory porcelain and glass. Several qualities of porcelain are now obtainable corresponding to those formerly supplied by Germany. Mr. T. D. Morson showed samples of kapok, which is finding many uses in this country. The best quality of kapok comes from Java, and sells at about 8d. per lb. Other qualities from Ceylon, Calcutta, and Bombay sell at prices from 4½d. upwards. Kapok is used in life-saving jackets on account of its sustaining power in water. To detect the presence of cotton in kapok iodine is used, with which cotton takes a deeper stain than kapok. A recent employment of kapok is for bedding, as kapok repels insects. Thistledown is used as an adulterant of kapok. Mr. Reid added that it was on his suggestion to the Royal Aero Club that kapok was employed for lining aviators' jackets. It can be obtained in very large quantities, and can be nitrated, but is unstable. The yellowish kapok is the best; it can be kept under water for weeks at a time without becoming wetted. It is brittle, and hence not suitable for stuffing cushions. Kapok could be used for making paper, but the resinous and waxy matters would need extracting first. In regard to thistledown, he had walked up to his waist in thistledown, which in South America is often to be met with in enormous quantities.

SEWAGE-DISPOSAL.—A discussion then took place on a paper read last June (*C. & D.*, June 13, 1914, p. 54) by Dr. Tripp on the Dickson centrifuge system of sewage-disposal. The Chairman and Mr. O'Shaughnessy took part in this, the chief point of criticism being the utility of the residue as a manure.

WAX-ANALYSIS.—Mr. M. S. Salamon then read a paper by himself and Mr. W. A. Seaber on the detection of small quantities of paraffin wax in beeswax and the determination of a new constant for East Indian and European beeswaxes. The authors have referred before to the difficulties of detecting small quantities of paraffin wax and the unsatisfactory characters for beeswax as given in the new British Pharmacopœia (*C. & D.*, March 13, p. 111), and have now made the observation that upon saponifying a sample of beeswax the clouding-point varies according to the presence or absence of paraffin wax. This affords a very fair approximation of the amount of paraffin wax present, although absolute accuracy is not claimed. A large number of tests have been carried out in devising the method. Mr. Reid said he should like to have experimental evidence with authentic samples of pure beeswax, because some samples of undoubted purity contain unsaponifiable matter due to the presence of propolis. He further gave the meeting some interesting particulars of the use of East African wax as a foundation for the comb in beehives. The bees can tell at once if ceresin or mineral wax is employed as a foundation, and refuse to work it. It is the same with East Indian wax, which is also torn down and is left in a lump at the bottom of the hive.

SOME EXPERIENCES.—Mr. Watson Smith, ex-Editor of the Society's "Journal," then read an interesting paper regarding the position of works chemists during the period 1865 to 1875. This was in reference to Professor Perkin's recent address before the Chemical Society (*C. & D.*, April 3, p. 49). It was a racy description of the positions held by the author in chemical-works, and dealt with the suspicion, based upon ignorance with which the chemist was regarded in those days. The works covered those

dealing with soap, alkali, copper-extraction, coal-tar distilling, and the manufacture of potassium chlorate. The salaries paid began at 100*l.* per annum. The lecturer told how he lost all his savings in partnership with a manufacturer of potassium chlorate, and how afterwards he took up teaching. Personal reminiscences were given of Dr. Mond, Ernest Solvay, C. T. Kingzett, Alder Wright, Fahlberg, and Sir Henry Roscoe, and finally Mr. Watson Smith told how a patent he took out for extracting cineol from eucalyptus oil could not be exploited in this country, but was taken up readily by Merek, of Darmstadt, who gave him 50*l.* for the patent-rights.

COPPER-ASSAY.—The last paper, by Mr. A. Fraser, of Valparaiso, dealt with the use of sodium fluoride in the iodide method of copper-assaying.

Wills.

MR. EDWARD EDWARDS VAUGHAN, chemist and druggist, 1 Vaughan Street, Rhyl, who died on February 7, left estate valued at 1,893*l.* 11*s.* 5*d.* gross, with net personalty *nil*.

MR. PETER TYRER, Cranfield Lodge, Bexley Heath, Kent, managing director of the Natural Food Co., Ltd., who died on February 6, left estate of the gross value of 27,357*l.* 4*s.* 8*d.*, of which 21,479*l.* 15*s.* 6*d.* is net personalty.

MR. WILLIAM ATKINSON ODDY, Morningside, Riley Avenue, St. Annes-on-the-Sea, rubber-manufacturer, Calf Hey Works, Bury Road, Rochdale, who died on March 4, left 42,578*l.* 0*s.* 5*d.*, with net personalty 39,086*l.* 11*s.* 11*d.*

SERGEANT HENRY GEORGE BERNARD LEGGE, chemist and druggist, 26 Riverside Road, Norwich, who died on January 22 intestate, left estate valued at 235*l.* 2*s.* Letters of administration have been granted to Mrs. Beatrice M. Legge.

MR. EDWARD JAMES HURDON, chemist and druggist, Camelford, who died on February 10, left estate of the gross value of 17,076*l.* 17*s.* 5*d.*, of which the net personalty has been sworn at 487*l.* 2*s.* Probate of his will has been granted to his brother, Mr. J. Hurdon, and Mr. W. Jewell, both of Camelford. The testator left to his sister Arabella Elizabeth 100*l.*, a house in Chapel Street, Camelford, and an annuity of 100*l.* He left an annuity of 60*l.* to his nieces Lilla, Ida, and Helen, daughters of his brother William, jointly, with remainder to the survivor for life, and subject to these provisions, the residue of his property to his brother John.

Trade Notes.

PAPIER POUDRÉ SHAVING-PADS are the feature of the advertisement in this issue of Papier Poudré, Ltd., 20 Baker Street, London, W. Three pads of the paper last one year is the "talking-point."

BEESWAX.—Importers and bleachers for twenty-five years of beeswax and suppliers of all varieties, Hayes & Finch, Ltd., Vernon Street, Liverpool, appeal to readers of the *C. & D.* for inquiries. Any sample of wax can be matched.

CLINICAL THERMOMETERS.—Burge, Warren & Ridgley, Ltd., 91 and 92 Great Saffron Hill, London, E.C., advertise British-made clinical thermometers in this number. The "Empire" brand and the "Duo in Uno" patent are the two classes of which several varieties are mentioned with the prices.

ESSENTIAL OILS of all kinds, including several for which they are specially noted, are offered by Messrs. N. V. Polak & Schwarz, Zaandam, Holland, a Dutch firm of aromatic-oil distillers, who are well known to leading buyers in this country and elsewhere. In their advertisement in this issue they enumerate a number of the oils that they distil, and which include terpeneless oils. Applications for their price-list and quotations may be made to them in English.

BELGIAN COMMERCE COMMITTEE.—The Comité Belge Pour le Commerce avec Les Allies has been founded, with the object of facilitating in every possible way business between the Allies. The Committee will endeavour to bring Belgian manufacturers, merchants, and buyers in contact with the buyers and suppliers of the Allied nations, and secure trustworthy and competent representatives in Belgium, and also supply the Allied nations with Belgians skilled in various branches of commerce. The temporary offices are at 97 Cannon Street, London, E.C., where particulars can be obtained of the subscription—which is small—and of the facilities that will be afforded to members.



Postal Address:

C. & D. INFORMATION DEPARTMENT, 42 Cannon Street, London, E.C.

Telegraphic Address: "CHEMICUS, CANNON, LONDON" (two words).

Telephone Number: 3617 CENTRAL (three lines).

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated. Please address us as above:

68/22. Antiseptic paper (for 61/8. "Japanese floating telephones, etc.): makers. soap": suppliers.
63/44. "Cresol" (or "Cresol") disinfectant (proprietary). 51/52. "339" Eau de Cologne: supply.
63/46. "Pygmy" (or "Pygmy") tablet-machine. 56/63. "Oxypathor": London supply.
63/55. Seneschall Pedicure corn-plane. 62/44. "Galactophos": makers.
66/39. "Neurozone": suppliers. 57/58. "Elysium" soap: makers.
62/41. "Cairo" dental syringe.

See also "War Wants Exchange" in the Coloured Supplement.

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.:

Aegyptiacum, 57/581
Altona drops, 58/8
Aluminium tins, 59/6
Bedpans, enamelled iron, 47/19
Belton's "Busy Bees," 46/480
British Syphon Co. (address), 60/49
Bronzed douche-cans (Egyptian inquiry), 59/102
Burettes, 60/44
California syrup of figs, 60/2
Camel-hair brushes (British), 54/56
Caoutchouc surgical instruments (for Egypt), 59/1
Diamidophenol, 35/37
Disinfecting-candles, 58/41
Glass funnels, 60/440
Glass syringes, 55/68
H.G.H. oil of peppermint, 45/17
Houbigant's perfumery, 58/7
Hudson's vegetable leaflets, 45/19
Japanese antimony boxes, 58/72
"Kura" ointment, 58/6
Kuticool, 59/19
Laminaria tents, 58/62
Liquor Aeris Co., 24/44
Little's Oriental balm, 41/16
Muller's nutrient tablets, 59/11
Muratic acid (Dutch inquiry), 25/68
Porcelain jars with celluloid caps, 59/1, (for Egypt), 59/7
"Portia" baby-balance, 50/51
Postal boxes, 26/41, 29/17
Potassium ferrocyanide, 35/37
Poudre de Simon, 34/41
"Raditherm" flasks, 44/48
"Record" syringes, 40/7
Regepyrin, 42/69
"Selyt" cloths, 29/2
"Seven o'clock" razors, 46/40
Smith's disinfectants, dentifrices, etc., 32/17
Soap, powdered (5-10 ton lots), 47/55
Sodium carbonate, 35/371
Sodium hyposulphate, 35/373
Sodium salicylate (American origin), 53/56
Tammalite, 40/10
Terebene, 48/10
Thermol, 39/43
Zinc ichthyolate salve-mulls, 48/21

See also "War Wants Exchange" in the Coloured Supplement.

April Examinations in Edinburgh.

We have received from the Secretary and Registrar of the Pharmaceutical Society of Great Britain the following results of the recent examinations held in Edinburgh:

MAJOR EXAMINATION.

Flett, Arthur, jun., Uddingston

MINOR EXAMINATION.

Alexander, W., Glasgow
Anderson, C., Aberdeen
Banks, J. McK., Wick
Baxter, R. W. W., Leeds
Beaton, A. B., Newcastle
Begg, J. A., Aberdeen
Blake, H., Walkerburn
Brownlie, Margaret C., Ayr
Bruce, A. G., Edinburgh
Burroughs, E. H., Millom
Campbell, Helen K., Dalry
Clayton, F. A., Pilmoor
Cooper, G. Y. C., Arbroath
Crone, W. I., Bucksburn
Cruickshank, R. B., Fraserburgh

Gosney, G. A., Leeds
Handley, G., Roslin
Henderson, D. S., Arbroath
Hopekirk, J. G., Hawick
Hughes, G., Pittenweem, Fife
Hutcheon, A. B., Turfiff
Inneside, W. J., Maud
Linklater, R. F., Glasgow
McDonald, P., Edinburgh
McKay, J., Huntly
McMannes, A. M., Aberdeen
Rule, C. S., Huntly
Sim, J., Fraserburgh
Staffiere, B., Dunfermline
Swain, C. F., Newark
Veitch, J., Dunfermline

Observations and Reflections.

By Xrayser II.

Some Manchester Chemist

ought to point out to the "Daily Dispatch" of that ilk that all the particulars of prescriptions and their prices given by its contributor, "A Lancashire Medical Man," in illustration of the enormous profits chemists are getting on Insurance dispensing, are exactly the same as those used by Dr. Salter at Bermondsey. This is true not only of those avowedly repeated from Dr. Salter's speech, but of those also which the Lancashire practitioner refers to as coming under his own knowledge. On the face of it the coincidence is remarkable, and from the point of view of one who is ostensibly a new witness it is a little unfortunate that out of "many instances" which he "could quote" he has happened to choose two which have been used before. Of course, he may have supplied them to Dr. Salter—though in that case one would have supposed he would select others for his own use—and this seems on the whole the most charitable assumption. Surely there are not two Richmonds (I was on the point of saying two Ananias!) in the field?

Mr. Montagu's Sympathetic Reception

of the pharmaceutical deputation on April 6 marks a distinct advance towards the equitable treatment of panel chemists, and his reply shows that his sympathy is of a practical sort. It is not his fault that the sum we are to receive in liquidation of arrears is inadequate. In the circumstances it may be accepted as fair, though to call it "handsome," as the President did, is to put a serious strain on language. The promise of an emergency settlement, where desired, for 1914 will be widely welcomed. Whether it is worth accepting or not in particular cases will depend on the area, but if the average rate is a fair one, as it seems likely to be, its general acceptance will be good policy. But when all is said the most encouraging part of Mr. Montagu's reply to the deputation is his half-promise with regard to the discounting clause. This official recognition of that clause's unfairness and our right to demand its repeal really gives the battle into our hands if we have the courage to press it to the issue. It must be ours to see that the Society does so press it. Both the Society and Mr. Montagu compliment us on our patience and loyalty; we may be pleased to find ourselves appreciated, but that pleasure will not help us much. We should regard the appreciation we have won as the goodwill, so to speak, of our Insurance business, and insist on getting its market value. The lowest price we can accept is the abolition, so far as we are concerned, of the discounting clause. Mr. Montagu reminded us, a little unkindly, that our contracts are voluntary, and it may be useful to remind ourselves that they were made on an understanding, virtually amounting to a promise, which proved fallacious. We must make no more engagements on such half-promises. We must make it fully understood that the contracts will not be renewed while discounting continues in force.

Mead

was once the most popular of our national drinks, and I was much interested to find a recipe for making it inquired for. The one you supplied is of the simplest, but would yield a much pleasanter drink than most of the more elaborate ones. Sir Kenelm Digby has more than a hundred, some of them containing between twenty and thirty different herbs and spices, others differing from yours only by the addition of a clove or two. He usually calls the drink *meath* or *meeth* (recalling the Welsh *medd*, in which *dd* is pronounced like *th* in *smooth*), but it is sometimes *metheglin*, and sometimes *hydromel*. The good knight had a fine taste in drinks, which in his book take precedence of eatables; and a perusal of his "Closet Opened" makes one regret the time when every housewife had this or some similar work on her shelves.

Even Mr. Hampton's dream of a Pharmacopœia including domestic remedies for simple ailments, all labelled with full directions, is not more alluring to the pharmacist. Sir Kenelm, by the way, had sound views as to the brewing of tea. Let the water (he says) remain on the leaves "no longer than you can say the *Miscere* Psalm very leisurely."

An Advertising Agent

naturally holds that advertisements, to be really effective, must be the work of a specialist, but Mr. Derrick's article on the subject in the "Daily News" last week (April 9) does not convince me that the proprietor of an article cannot "tell its story" as well as an expert. I think I could have argued the matter as well myself; at least I see what seem flaws in his argument. Take, for example, what he says of the cost of advertising. It is, he tells us quite truly, an investment, and a part of the inevitable selling cost; but in the next sentence he adds that it "lessens the selling cost." How are we to reconcile the two statements? The argument he advances is that when a demand has been created the "result" is "accomplished." Other expenses as of travellers, middlemen, and such-like machinery, are reduced, and instead of business being a constant "heart-breaking push" it becomes "a steady pull from the customer." But he admits, and it is well known, that directly we cease to advertise we lose the "momentum" of what we have already done; the result of advertising, in fact, never is accomplished, but is continuously being accomplished, and the "steady pull" only continues along with it. This is nothing against advertising, but it is a fact that has to be faced. It may be that ultimately neither the advertiser nor the consumer pays for the advertisement, for undoubtedly advertising makes for increased efficiency; but this costs something, and somebody pays for it. The cost, no doubt, is distributed, and possibly the non-advertising trader ultimately pays a good deal of it; but who will pay it when Mr. Derrick's ideal is realised and everybody advertises?

The Interest for Pharmacists

of the latest instalment of the "Oxford English Dictionary" (Standard) is considerable. The most important drug-name in it is *squill*, the history of which is, however, well known. It is defined as "A bulb or root of the sea-onion, or other related plant." It dates in English from 1400, but the first quotation cited for a preparation from it is from a work of 1652, which is very late. Gerard, to go no further back, referred to the oxymel in 1597. More interesting philologically than *squill* is *stamen*, one of the words specially mentioned as remarkable by Mr. Bradley in his introductory note. Its original meaning is the warp of a textile fabric. Hence the thread spun by the Fates at a person's birth was called his stamen, and the word acquired the meaning of the measure of the vital impulse or capacity possessed at birth, which is still retained in *stomina* when applied to persons. The technical use of *stamen* in botany appears to have begun with Adriaan van den Spieghel (died 1625), but it was, says Grev (quoted by Mrs. Arber in her "Herbals"), an English botanist, Sir Thomas Millington, who discovered about 1682 that stamens are the male organs of the plant. *Stalk* is another very interesting botanical term. It is said to be a diminutive of *stale*, a handle, and to be connected with *stalking*, which means to walk cautiously: that is, "with stiff, measured steps, like a long-legged bird." *Spurge*, in such names as *spurge-lourd* and *spurgewort*, is equivalent to *purge*. Standing alone it was the name of many varieties of the genus *Euphorbia*; Gerard alone figures twenty-three, of which fourteen are noticed in the Dictionary. *Spruce* is an alteration of *Pruce*, *Prussia*. Hence *spruce-fir* and *spruce-beer*, the latter not necessarily meaning beer from the spruce-fir, but sometimes merely Prussian beer. The curious way in which words acquire different and sometimes contrary meanings is well illustrated by *staggerwort* and *stagger-grass*, the former having been given to ragwort because it cures staggers in horses, the latter to the Atamasco lily because it causes them.

A WORD OF WARNING.

In view of the present congested and uncertain state of the railways throughout the United Kingdom, the Trade generally, and especially the Wholesale Trade, are advised to maintain larger stocks, and to order supplies as far advanced as possible, so as to avoid loss and inconvenience of the otherwise unavoidable delay which takes place between despatch from our factory and delivery at destination.

THE "SANITAS" COMPANY, LIMITED,
Locksley Street, Limehouse, London, E.

"Eureka"
Weed Killer.
Lawn Sand.
Fumigants.
Insecticides.
Summer Shade.
Bordeaux Mixture, &c.
Saleable Lines. Good Profit. Tomlinson & Hayward, Ltd., Lincoln.
Attractive Advertising.

G. S. MUMFORD & SONS, Farringdon Rd., London, E.C.

Finest ARROWROOT	10d. lb.	Finest Pure LIQUORICE JUICE 2 oz. and 4 oz. sticks	10d. lb.
BICARB. SODA Finest Extra Special	13/- cwt.	Finest Compound LIQUORICE POWDER	7d. & 1/- lb.
BORACIC ACID Powder Finest	46/- cwt.	No. 1 Finest Pure FULLER'S EARTH (Light Colour)	13/- cwt.
No. 1 Finest Pure CRUSHED LINSEED No Oil Extracted	22/- cwt.	"PYLITNA" POWDERS. 27/- per doz P.A.T.A. 2/9	
No. 2 Pure CRUSHED LINSEED No Oil Extracted	21/- cwt.	Genuine remedy for Piles. Special terms for Co-operation, Counter Shows, &c. 3 extra free boxes with order for 1 doz. Also 1 extra free box for Cash with order	
Best Cleaned LINSEED	22/- cwt.	No. 1 Finest Light Pure PRECIP. CHALK	23/- cwt.
Cream of Tartar: Citric Acid; Tartaric Acid; Powdered Nitre at current prices		Finest Pure STARCH POWDER	23/- cwt.
EPSOM SALTS, E.S.S. Purified, Clean, and Dry	19/- cwt.	Finest Pure TOILET OATMEAL SPECIAL	32/- cwt.
FLOWERS OF SULPHUR. Finest English Ditto Foreign	18/- cwt. 17/- cwt.		

Carriage Paid to railway stations within 300 miles of London (for allowance made for distances beyond) on orders of 1 cwt. and upwards. Terms: Less 2½ per cent. Cash or 1 month net.

**REBMAN'S ASEPTIC CALF LYMPH**
Swiss Government Manufacture.
6d. and 1/- per tube. Terms on application.
— SOLE AGENT: —
WILLIAM HEINEMANN,
21 Bedford Street, London, W.C.

REYNOLDS & BRANSON, LTD.,

Grand Prix **LEEDS.** Turin 1911.

PHARMACEUTICAL PREPARATIONS.

Tinctures, Ointments, Pills, Tablets, Suppositories.
Standardised and Clinically Tested Galenicals, &c.

SURGICAL INSTRUMENTS.

X-Ray and Electro-Medical Apparatus, Dressings, &c.

AERATED BEVERAGES.

Sparkling Phospherrade, Puritzer, Dry Ginger Ale, &c.

SCIENTIFIC APPARATUS.

(Chemical, Physical, and Photographic). Balances and Weights.

CHEMICALS FOR TECHNICAL AND ANALYTICAL PURPOSES.

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BRITISH ABSOLUTE ALCOHOL.

Jas. Burrough Ltd. D.I. Cale Distillery, Hutton Rd., LAMBETH, S.E.

"A revolution in the art of Urine Testing."—Medical Press & Circular.

ENDOLYTIC TUBES

"The Laboratory in the Waistcoat Pocket."

Wholesale Terms on application to the Sole Proprietors:

FLETCHER, FLETCHER & Co., Ltd., HOLLOWAY, LONDON, N.

Editorial Articles.

"Business as Usual."

THE Board of Trade Returns of exports and imports during March show remarkable results. The imports reached 75,590,918/ c.i.f., an increase of 8,643,603/ over March 1914 and of 14,248,474/ over March 1913; while exports of goods manufactured in the British Isles were valued at 30,176,066/ f.o.b., being a decline of 14,342,595/ from March 1914 and 11,513,881/ less than in March 1913. Making allowance for higher values all round, and the fact that the figures do not include any supplies for the Army and Navy serving abroad, the records show that many of our industries are extremely busy. The food imports rose by 7,651,367/, of which four millions was for grain and flour and 1,782,515/ for meat; but the quantities received were less. Part of the increased price is due to higher freights. Practically five millions more of raw materials was imported during the month, and the activity in the wool trade is reflected in a rise of 2½ millions sterling in raw wool, while raw-cotton imports are actually larger than in March of last year. Oil-seeds, nuts, oils, fats, and gums show the substantial increase of 1,297,628/ over March 1914. Last month's total imports were valued at 5,091,774/. Over half of this increase was due to the extraordinary receipts of palm oil and palm-kernels from the West Coast of Africa (which formerly went to Germany). Palm-kernels alone were imported to the extent of about 46,000 tons. These figures accord with the reports which we have for some time been publishing in regard to the scarcity of oils in Germany and the consequent shortage of glycerin for munitions of war. Another gain in our imports last month was 20,400,000 gals. more of petroleum compared with March 1914, when 47,581,497 gals. was imported, compared with 68,005,468 gals. last month. Of motor-spirit alone we imported 18,704,459 gals., compared with 11,708,202 gals. in March 1914, and of fuel oil 29,641,789 gals., against 13,470,024 gals. in March 1914. These are among the most significant figures in the whole returns, since they demonstrate that Germany's submarine warfare against British maritime commerce has failed completely, contrary to the "news" given out to the deluded inhabitants of Germany, where there is a motor-spirit famine. Our imports of motor-spirit in the whole quarter, amounted to 33,725,457 gals., or 7,285,547 gals. more than in the first quarter of last year, and it will be noted that of this more than half was imported last month. Surely future historians, instead of finding evidence of a blockade, will regard such figures as proof of none. Among kindred imports we note that linseed fell off from March 1914 by 170,000 qrs., or 335,000/, and castor seed

by 73,000 cwt., or 41,000% ; while soya-bean receipts were 11,929 tons, or 95,173%, more. There was an increase of 36,700 cwt. in turpentine (64,500%); kauri and acacia gums fell off by 15,000 cwt. and 3,650 cwt. respectively. The imports of manufactured goods during the month fell in value by 4,042,894%, compared with March 1914, to 13,967,882%, the decline applying to practically every item, with the exception of chemicals, drugs, dyes, and colours, which were 304,208% more, the March figures for the three years being as follows :

1913	1914	1915
£1,052,050	£1,160,680	£1,464,888

This increase is very gratifying, as although the goods are classified in the returns as "wholly or mainly manufactured," the bulk of them are raw or semi-raw materials used in our chemical industries, and many of them cannot be manufactured in this country. The largest increase was in natural indigo, of which 30 cwt. was imported in March 1914 and 2,886 cwt. more last month. During the quarter 177,866 cwt. of indigo (value 820,437%) has been imported, compared with 469 cwt. (value 8,263%) in the 1914 quarter. We reserve observations on other aspects of the returns.

Imperial Standardisation.

THE augmentation of human knowledge consequent on experience gained in the present war promises to be stupendous, particularly in regard to the advancement in methods of medical and surgical practice. Thus in respect to the treatment of wounds we are getting far beyond the aseptic *v.* antiseptic controversy, and are learning that surface cleanness and disinfection are merely part of a big subject, for bacteriologists appear at the moment to be only on the threshold of important discoveries. Thus Colonel Sir Almroth E. Wright, M.D., F.R.S., who is a consulting physician to the Expeditionary Force and directs the operations of the Research Laboratory attached to No. 13 General Hospital, Boulogne-sur-Mer, began a recent lecture to the Royat School of Medicine with the premise :

"In this war practically every wound is heavily infected. The chain of cause and consequence seems to be as follows: The clothes and skin of the soldier on war service become contaminated with all manner of filth containing pathogenic organisms and spores; the projectile takes these with it, and it implants them far beyond the reach of any prophylactic applications of antiseptics."

Incidentally we mention here that Sir John French in his dispatch on recent operations, gazetted on Wednesday, refers to the research in the following passage :

"I would particularly comment upon the energy displayed by the Royal Army Medical Corps in the scientific efforts they have made to discover and check disease in its earliest stages by a system of experimental research which, I think, has never before been so fully developed in the field. In this work they have been ably assisted by those distinguished members of the medical profession who are now employed as military medical officers, and whose invaluable services I gratefully acknowledge."

From these statements it is apparent that modern methods of research are being applied in a manner which opens up a region of investigation, with possibilities of evolving a volume of new facts and data which will revolutionise opinion as well as treatment when they are collated and epitomised. Similar data will doubtless be recorded by the medical services of all the combatants. So far as our own country is concerned, we cannot avoid reflecting that the research is being conducted chiefly, if not entirely, at the expense of a State which in this time of war is doing many things that would not be undertaken in times of peace, however much reformers might call for State

aid. Another unexpected result of the war in the department of pharmacology is the provision by the State of what we may call a department of imperial standardisation of medicinal products, for that we regard as the meaning of the report issued by the Insurance Act's National Medical Research Committee in regard to the manufacture of salvarsan-products in England and France. The report deals with the investigations made by the Committee in connection with the granting (under the special Patents, etc., Acts) by the Board of Trade of permission to Burroughs Wellcome & Co. to manufacture salvarsan and neo-salvarsan in this country under the letters patent of certain alien enemies, and similar permission granted to the Société Anonyme des Etablissements Poulenc Frères, of Paris, for the sale in Great Britain (through the agency of May & Baker, Ltd.). The report explains that the Board of Trade licence in both these cases was granted subject to the condition that all samples of the drugs sold in this country should be submitted to biological tests by an authority approved by the Board of Trade, and the Medical Research Committee accepted for the time being the responsibility of directing the biological tests of the salvarsan and neo-salvarsan produced by the English and French firms. This undertaking we regard as a considerable step in advance towards the physiological standardisation of medicines. It is understood that this subject was considered by the revisers of the British Pharmacopœia, and one of the chief reasons why physiological standardisation is not recognised in the new edition of the Pharmacopœia is that there was not available a central official authority which could hall-mark, so to speak, those remedial agents which it is desirable to submit to biological or physiological standardisation. We therefore regard what is being done in respect to salvarsan as a precedent of value, which should not be lost sight of. We are told that the National Medical Research Committee entrusted the details of the salvarsan work to most competent pharmacological workers, who took as a basis for the biological control, supplementing the manufacturers' chemical tests of purity, the methods and standards which had previously been found adequate in Ehrlich's Institute. It was decided that specimens should be passed and certified as satisfactory which were not more toxic to mice than the average sample of salvarsan manufactured in Germany. This resulted in the rejection of some samples which exhibited no greater toxicity than *some of those previously issued in this country with Ehrlich's authority* (italics ours), and used therapeutically without adverse result. In addition, however, to this application in all cases of the official German test, every sample has been tested by intravenous injection into a rabbit of a large dose only slightly less than that which may be expected, according to Ehrlich's publications, to be lethal for the animal. The object of this test was to guard against the presence of any immediate toxic constituent which might escape detection when doses were given hypodermically to mice. If, in the performance of this test, any difference had been found to exist as between the English or French products on the one hand, and the original German products on the other, the sample in question would not have been passed for certification and for sale to the public. The Committee have obtained also experimental assurance that both the English and French preparations are equivalent to the German in therapeutic effect. Thus the allegation made in the German Press to the effect that salvarsan can only be made pure in Germany is not only disproved, but it is shown that the products made here are better

than German salvarsan. The report puts the matter irrefutably in the following statement :

"In the opinion of the Medical Research Committee, the experimental work which has been done under their direction has already shown that the problem of the successful manufacture of the salvarsan compounds in England and France has been solved. By the communication from time to time to the manufacturers of certain findings of the scientific workers entrusted with the problem by the Committee, assistance has been given wherever possible towards the establishment of fully satisfactory technical manufacturing methods, and the Committee are confident that, so far as the strictest laboratory controls can ensure it, the profession and the public are now receiving from English and French sources compounds fully up to the standard of the best German samples previously sold. It is to be hoped that very soon the quantity of the products so supplied will be as sufficient as their quality."

Colonial Trade.

ONE of the most gratifying features of the present war is the manner in which our compatriots in the British Colonies and Dominions beyond the seas have rallied round the old flag. This statement needs no demonstration; the men are fighting now, many have given their lives for the King, and more are ready to come forward. Here we have a magnificent and novel testimony to the power of the Old Country in attracting the help of its citizens when its freedom is threatened. The war has done another thing which is not so obvious, and which many people, even some actually in business, have not yet fully realised—viz., it has strengthened the commercial links between the British Isles and all parts of the British Empire. The article "Business as Usual" gives official statistical proof of this, and we may emphasise the figures in regard to the exportation of medicinal preparations from the United Kingdom during the past three months, giving the items in detail for each quarter of the past three years, exclusive of re-exportations of foreign goods of a similar kind, which amount to 101,627l. this year so far :

MEDICINES, COMPRISING DRUGS AND MEDICINAL PREPARATIONS.

(Produce and manufactures of the United Kingdom.)

	1913	1914	1915
Opium, dried and powdered in the United Kingdom...	£ 6,587	£ 7,500	£ 6,836
Quinine and quinine salts ..	16,117	20,261	22,245
Other medicines	558,695	590,660	666,081
	581,399	618,421	705,162

These are only a few of the goods handled by those whose interests are covered by THE CHEMIST AND DRUGGIST as a trade journal, but they happen to be representative. It seems almost superfluous to say that the war has not injured this department of export business: the figures prove quite the contrary, therefore that overseas markets are good business. In view of these facts we once more call the attention of advertisers, manufacturers, merchants, and wholesale houses to the Colonial Issue of THE CHEMIST AND DRUGGIST, which will be published next week. It is designed to keep up and extend this Colonial overseas business, and we consider that none should make the mistake of not participating in this. The advertisement pages of the issue will close for press on Tuesday, April 20.

Air as Food for Germans.

THIS is, we think, as good a title as any that can be given to the following translation of a paragraph which has appeared in "Kölnische Zeitung" about an alleged "triumph of German science" :

The last number of "Zeitschrift für Spiritusindustrie" announces that German science has succeeded in producing

a food-albumen from yeast. Carbohydrates are notoriously plentiful in Germany, being obtained from potatoes, beet-root, and turnips, but up to the present albumen-containing foods have been imported. The discoverers of the new process are the Institute for the Fermentation Industry in Berlin, and what they have done is to make food-yeast containing over 50 per cent. of albumen from ammonium sulphate, ammonia, and sugar by a simple process in which knowledge of the manufacture of baker's yeast is utilised. The production can immediately be taken up by yeast-factories which are only using half their plant. It has therefore become a simple matter to replace albumen foods hitherto imported, and the process is such as to render us [Germans] permanently independent of imported nutrients. Apart from its practical utility, the process has scientific value, for it reveals the working in the cells of lower organisms, and shows that yeast-cells are capable of building up directly, without intermediate steps or loss of time, albumen from sugar and ammonia. For baker's-yeast manufacture, 100 parts of sugar and 37.5 parts of nutrient salts yield, after pressure, 160 parts of good yeast, and for nutrient-yeast manufacture, 100 parts of sugar and 52 parts of nutrient salts yield 270 parts of the same. A further increase of the yield is anticipated, so that 100 parts of sugar will furnish 100 parts of yeast containing 50 per cent. of albumen.

The "Kölnische Zeitung" adds: "As we are notoriously in the position to produce ammonia from the nitrogen of the air, it can be confidently asserted that by a technical process nitrogen from the air may be transformed into albumen. Quite apart from the great importance attached to the process at the present moment, it signifies a gigantic hole in the starving-out campaign of our enemies."

We have daily papers in this country which are as clever at manipulating "science" as the "Cologne Gazette," but we have none that would try to persuade the people that they need not worry about being starved, as they will get all the eggs and sausage required from the air. We were under the impression that since the beginning of things yeast has been grown in solutions of sugar, and that ammonium salts are helpful to the growth, so that the "triumph of German science" referred to is difficult to detect. Have the Germans never heard of Marmite and kindred appetising food-products from yeast?

Registration without Examination.

IN view of the Privy Council's solicitude on behalf of Army dispensers and its expression of regret that the Pharmaceutical Council has not yet provided for their registration as pharmacists without examination, some interest attaches to the following recent response to the Army Council's recruiting circular :

I would like to join the Royal Army Medical Corps, as I know a little about drugs. This is proof: For a cold:—
5 drachms 20 minims of paragoric.
1 oz. of oxymel of squills.
Infusion of cascarrilla to 8 ozs.
Tincture of camphor co. mxx.
Oxymel scillæ zt.
Inf. cascarrilla @ zt.
Zts. tds. ex aqua.
Mitte xviii.

With such infallible "proof" of his attainments the would-be dispenser should be a valuable addition to the R.A.M.C., and, after supplying "Tommy's" medical needs in the field, might well aspire to legislative recognition as a "pharmacist" under the ægis of the Privy Council. But why stop at pharmacy? The young man is already a "qualified" prescriber, as he shows: a little clinical experience in Army hospitals would complete his training in anatomy and diagnosis, and so fit him for inclusion in the Medical Register without examination. What would the General Medical Council think of such a Privy Council suggestion?

The Patent-medicine Inquiry.

As a sort of supplement to the very biased report of the House of Commons Select Committee on Patent

Medicines, the "British Medical Journal" has been publishing things in the same line, the latest being an American report in regard to alleged changes of composition of certain medicines chiefly of American origin. The "B.M.J.," like the Chairman of the Select Committee, is chagrined that the Committee's report was issued on the eve of the war, with the result that the matter is practically shelved. Dr. H. Langley Browne, one of the direct representatives on the General Medical Council, has now come to the rescue, and in the "B.M.J.," April 10, mentions the following resolutions of the General Medical Council:

(a) That the General Council should convey to the Lord President of the Privy Council an expression of its complete approval of the recommendations of the Select Committee.

(b) That the General Council represent to the Government, through the Lord President, the necessity for the immediate creation of a Ministry of Public Health in pursuance of the recommendations of the Select Committee.

Dr. Browne adds: "In view of these facts could not some medical member of Parliament be induced to take up a matter so pressing in the interest of public health and bring in a Bill embodying some, if not all, of the recommendations contained in the report? Or, if immediate legislation is impracticable, would it not be possible to take other steps towards diminishing the dangers of the unregulated sale of secret remedies by making more generally known the evils at present associated with it?" For ourselves we do not see why there should be such trouble to give the "Secret Remedies" propaganda such prominence; time enough when the war is over, if Sir Henry Norman is still of the same mind about helping its publishers.

Alcohol in Beer.

SIR EDWARD THORPE and Dr. H. T. Brown completed last year on behalf of the Excise their investigation on the determination of the "original" specific gravity of beer—i.e., of the worts before fermentation, on the specific gravity of which the rate of duty depends. The results which they obtained have now, by the Finance Act, 1914, been legalised as the basis for determining the duty, thus replacing the table compiled in 1852 by Professors Graham, Hofmann, and Redwood. Mr. C. Simmonds, B.Sc., of the Government laboratories, writing in "Nature" on the subject, says it has been known for some time that the 1852 table is not quite accurate, owing to its being based upon fermentations differing in some respects from those obtaining in ordinary brewery practice. The effect of the table now adopted is slightly to increase the amount of duty chargeable. In view of the rumours prevalent at present regarding the abolition or limitation of facilities for getting alcoholic liquors, and that the Government is to take over all breweries and turn out lighter beer, the new tables have special interest.

"COLUMBIAN METHANOL" is a name which is to be used by the Buffalo Wood Products Co. to indicate wood-naphtha or methyl alcohol. In the United States wood-naphtha has generally been called wood-alcohol or wood-spirit, with the consequence that confusion with ethyl alcohol has resulted.

THE ELMER SHIRLEY REMEDIES have been examined in the pharmaceutical laboratory of the Göttingen University at the request of the Geschäftsstelle des Deutschen Apotheker Vereins, with the following result: *Nasal tablets* consist of sodium chloride 34 per cent., boric acid 25 per cent., sugar 15 per cent., sodium bicarbonate 25 per cent. *Gargle tablets* contain sodium bicarbonate 75 per cent., ginger 15 per cent., sugar 10 per cent. *Nerve-nutrient* are pills resembling Bland's pills, but containing pepper. *Nebular fluid* is liquid paraffin containing cinnamon oil, menthol, and 2 per cent. of wintergreen oil.

Inventions Which have Become Public Property.

X.

[Continued from THE CHEMIST AND DRUGGIST, April 10.]

Salophen.

Acetylamidophenylic salicylate. Used in chorea, neuralgia, headache, etc.

TRADE-MARK: No. 278592, registered in 1906 by the Farbenfabriken vormals Friedrich Bayer & Co., Elberfeld.

PATENTS: Nos. 11833 of 1891 and 3435 of 1892, "Improvements in the Manufacture and Production of Pharmaceutical Compounds," granted to the above-named company. These were both in force for the full period of fourteen years. Corresponding patents, in the United States, 492868 (1893), "Salicylic Acid Compound"; France, 214810 (1891).

The method of manufacture given in the first British patent is as follows:

Four parts of nitrophenylic salicylate, which may be obtained in the known manner from salicylic acid and *p*-nitrophenol by means of dehydrating agents, such as phosphorus chloride or the like [the method is described in German patent 43713 (1837).—Ed.], is introduced into a mixture of 5 parts of tin, 10 parts of alcohol, and 15 parts of fuming muriatic acid. As soon as the nitro compound is dissolved the alcohol is evaporated, and then muriatic acid is added, which causes the tin salt of the amido-phenylic salt to separate in the form of small colourless needles. This is filtered off and dissolved in hot water, and the tin is precipitated by means of sulphuretted hydrogen. On subsequently adding sodium carbonate to the liquid, free from tin, the amido-phenylic salicylate is precipitated, it being almost insoluble in water. It may be purified by crystallisation from alcohol or benzene, in which liquids it is readily soluble. . . . This amido product is then suspended in glacial acetic acid, and mixed with the theoretical quantity of acetyl chloride or acetic anhydride. Heat is spontaneously evolved, and a clear solution is formed, from which the acetyl-amido compound soon separates, causing the whole liquid to become of a pap-like consistency.

The process described in the second patent (3435/92) starts with acetyl *p*-amidophenol. ("Berichte" xi. p. 232.)

Saloquinine.

Quinine salicylic ether. Tasteless substitute for quinine and salicylic acid.

TRADE-MARKS: No. 241251, registered in 1901 ("No claim for 'Sal'") by the Vereinigte Chininfabriken Zimmer & Co. G.m.b.H., Frankfurt a/M. The word "Salochin" is also registered (241250) by the same company.

PATENTS: No. 11783 of 1901, "Acidyl Derivatives of Cinchona Alkaloids and their Manufacture," granted to the above-named company, which remained in force for thirteen years, and Nos. 8165 and 16968 of 1901, "Manufacture or Production of New Pharmaceutical Compounds," granted to Farbenfabriken vormals Friedrich Bayer & Co., Elberfeld. The last two became void in the ninth year. The corresponding patent to Zimmer's in the United States is 698079 (1902), and to the first of Bayer's 678401 (1901).

The process of manufacture given in Zimmer's specification is as follows:

Salicyl Quinine: 32.4 kilos. quinine is heated for a few hours to a temperature of 140°-150° C. with 21.4 kilos. or an excess of salol. The product is ground with benzol, and the base removed therefrom by dilute acid. Ammonia is added to precipitate, and the product crystallised out of dilute alcohol.

Bayer's patent-specification (8165 of 1901) gives the following process:

In a vessel provided with a descending cooler a mixture prepared from 324 parts of quinine, free from water, and 214 parts of phenyl salicylate (salol), is heated by means of an oil-bath *in vacuo* to a temperature of from 170° to 190° C. After the mixture has melted a distillation of pure phenol begins, which solidifies in the receiver to a crystalline mass. After the reaction is finished the residue remaining

in the vessel is dissolved in chloroform, and the solution thus obtained is treated with 1-per-cent. acetic acid, by which means unchanged quinine is removed from the chloroform solution. Subsequently this solution is shaken with dilute sulphuric acid, and the sulphate thus formed separated from the chloroform. From this the free quinine derivative is prepared by adding excess of sodium carbonate and shaking out with ether.

Bayer's second patent relates to a method of making the product by heating quinine with salicylide or polysalicylides, or halogenides of salicylic acid. The preparation of salicylid and polysalicylides is described in German patent 68960 (1892), and of salicylide chloroform, also suitable, in German patent 69708 (1892). The method of making salicylchloride, the most suitable of the halogenides of salicylic acid, is given in French patent 304117.

Trade-Marks.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Directory," 1915, p. 435.

Objections to the registration of any of the undermentioned applications must be stated on Form T.M. No. 7 (obtainable at Money Order Offices for £1) and lodged with Mr. W. Temple Franks, Comptroller-General, Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned.

(From the "Trade-marks Journal," March 31, 1915.)

"FROZOCLONE"; for eau de Cologne (48). By R. Demuth, 68 Salusbury Road, N.W. 366,162.

"EUZOIC"; for perfumery, etc. (48). By J. Mahoney, 159 Chorlton Road, Brooks's Bar, Manchester. 366,352.

"LIGHTHOUSE BRAND," with picture of same; for polishes (50). By H. Sharp & Son, Ltd., Park Mills, Stanningley Road, Armley, Leeds. 365,869. (Associated.)

"REVILO"; for goods (50). By G. Oliver, 18 Charles Street, Leicester. 365,916.

(From the "Trade-marks Journal," April 7, 1915.)

"MEGGERLAC"; for chemicals (1). By Wilkinson, Heywood & Clark, Ltd., Storer's Wharf, Cubitt Town, E. 366,239.

"LION"; for fly-catchers (2). By F. W. Hampshire & Co., Derby. 365,625.

"GLYCASSIN" and "LANSOYL"; for medicinal chemicals (3). By Roberts & Co. and Latour & Cie., 75 New Bond Street and 10 Dering Street, W. 364,549/50.

"JACK TAR"; for medicated soap (3). By Anna F. Thompson, 63 Queen's Road, Marlborough Station, N.W. 364,779. (Associated.)

"APERALIS"; for all goods (3 and 44). By Cooper, Son & Co., Ltd., 80 Gloucester Road, South Kensington, S.W. 364,998/9. (Associated.)

"GLYCIODINE," for a medicated vermin-destroyer (3); "VITROS," for dental cement (11); "HYDROSUCTINE," for a dental adhesive (48). By the Western Dental Manufacturing Co. (1914), Ltd., West Ealing, W. 365,704/707/705.

"VERMIEJELLI"; for a vermin-killer (3). By S. Bowley & Son, Wellington Works, Battersea, S.W. 365,780.

Oval device of black woman; for quinine tonic (3). By W. H. Edmundson, Sutherland Street, Swinton. 365,826.

"PROTARIAN"; for food-substances (42). By Mapleton's Nut Food Co., Ltd., Moss Street, Garston, Liverpool. 365,414.

"HENECAH"; for a powdered food (42). By H. Thompson & Co.'s Idolice Specialities, Ltd., 10 Prospect Row, Birmingham. 365,592. (Associated.)

Device of cruet; for food-substances (42). By Tyson & Co., Ltd., 6 Blackstock Street, Liverpool. 365,751.

"SANALACTIN"; for food (42). By the British Products Association, 51 Milton Street, E.C. 365,830.

"LEMPORT"; for mineral and aerated waters (44). By Idris & Co., Ltd., Camden Town, N.W. 366,235.

"NESTANGLO"; for goods (47). By Nestlé & Anglo-Swiss Condensed Milk Co., 6 and 8 Eastcheap, E.C. 366,209.

"KILN"; for soft-soap (47). By the Strawson Chemical Co., Ltd., 79 Queen Victoria Street, E.C. 365,861.

"ROZMA"; for perfumery (48). By Ethel L. Thompson, 64 South Molton Street, W. 365,317.

"OGENO"; for perfumery, etc. (48). By H. S. Wellcome, Snow Hill Buildings, E.C. 365,643. (Associated.)

"SEARCHER"; for perfumery, etc. (48). By Robin & Houston, Ltd., Wright Street, Renfrew. 366,074.

Figure of an idol; for perfumery, etc. (48). By G. W. Goodwin & Son, Ordsall Lane Soap-works, Manchester. 366,179.

"KATHAROD"; for perfumery, etc. (48). By R. S. Houston, Meadowside, Glasgow Road, Paisley. 366,218.

"LILPUT"; for all goods (48). By the Torula Syndicate, Ltd., 40 Brazennose Street, Manchester. 366,274.

"DOX"; for gas mantles and brushes (50). By Electrolite, Ltd., 34 and 36 Gresham Street, E.C. 362,250.

"ROYDESCA"; for cellulose fabrics (50). By Scarborough, Nephew & Co., Halifax. 366,353.

ALTERATION OF TRADE-MARK.

"FLOXOIN LOTION."—Leave has been given under Section 34 of the Trade-marks Act, 1905, to Tokalon, Ltd., the registered proprietors of Trade-mark No. 360,806 in Class 48, to alter the mark, which now consists of oblong floral label device with words "Floxin Lotion."

The Odol Trade-marks.

AN application under the Patents, Designs, and Trade-marks (Temporary Rules) Acts, 1914, to avoid or suspend trade-marks 171016 and 255118 ("Odol," Class 48), owned by Karl August Lingner, was made at the Patent Office, before Sir Cornelius Dalton, on April 14, by Mme. V. M. L. L. Chevillard, trading at 203 Regent Street, London, under the style of "Les Heretiers du Dr. Pierre." Mr. Sebastian said applicant carries on business as a Franco-English firm, and manufactures toilet-preparations. Counsel put in a sworn declaration, which stated that the trade-marks are owned by the Lingnerwerke Gesellschaft, Dresden. Mark 171016 was originally owned by Schacht & Co., London Wall, London, E.C., and afterwards transferred to Lingner.

Sir Cornelius Dalton: No transfer has been registered at the Office.

Mr. Sebastian, continuing, said that by the time the second mark was taken out Lingner had a place of business in London. The first mark was registered for a dentifrice only, and the second one for other preparations in Class 48. Odol is made in bulk in Germany, and bottled in England. It has been advertised, and is a useful article the supply of which it is not desirable should be continued by alien enemies. Applicant has a knowledge of the formula from which odol is made, and can make it in any amount. Similar proceedings have been taken by applicant in Paris with success, and the manufacture is being carried on in France by applicant. It is suggested that the British market could be supplied at the same time, and that odol could be made either in France or this country as required by the Board of Trade. Counsel further stated that to offer the preparation under any other name than odol would be deceiving the public. In reply to Sir Cornelius Dalton, Mr. Sebastian said the article is not the subject of a patent, but beyond the statements in the declaration he was unable to go, as he had been unable to secure the presence of applicant owing to the war-conditions.

Mr. Gray opposed the application, and said that many of the statements in the declaration are wholly inaccurate.

Sir Cornelius Dalton, reading from the rules as to the conditions upon which trade-marks are suspended, said the present application seemed to be on new grounds. There did not seem to be a strong ground for the suspension of the mark. He further asked, in regard to the proceedings which counsel stated had taken place in France.

Mr. Sebastian put in a printed list which referred to the sequestration of German property in France, and which, he said, is the corresponding legislation to the Emergency Acts of this country.

Mr. Gray said odol is made in England and has never been imported. He agreed that the rules quoted are not exhaustive, but on the face of the declaration there is no ground disclosed for reporting to the Board of Trade in favour of the suspension of the marks. No documents have been put in to justify the statements in the declaration. It is not suggested that the supply in this country has been stopped. He asked that a copy of the formula by which it was proposed to make odol be supplied to the Court, as it would be to the deception of the public to be supplied with a different article under the name odol. He considered the application a barefaced attempt to take from these Germans the benefit of their property and advertisements. Here is a French firm making a rival dentifrice which they wish to sell under the name of odol and deceive the public into a belief that it is getting the same

article. The emergency legislation was never intended to cover such a case. He could see no principle that would justify suspension in such circumstances.

Sir Cornelius Dalton: I see it is stated that applicant considers it would be deceiving the public to sell the dentifrice under any other name than odol.

Mr. Sebastian said it was not his business to justify the Act of Parliament under which these proceedings are taken, but he took it that the principles are to disable alien enemies from carrying on business in this country and to continue supplies of enemy-made products. As to the deception of the public, he contended that it would be deceiving and cheating the public to sell a leg of mutton as a shoulder of mutton, and odol is just as much a name of an article as is "leg of mutton." One might as well argue that the names oxo and bovril are interchangeable, although they refer to the same substance substantially. The statements which he quoted in his opening remarks have been sworn to, and he assumed that they have not been made carelessly or without due consideration. Every endeavour had been made to secure the presence of the applicant, but war-conditions prevented her being here. As regards obtaining the benefit of the odol advertising, he did not see how the applicant could be responsible for that if the British Government decided to pass the legislation under which the case was taken.

In reply to Sir Cornelius Dalton, Mr. Gray said he did not propose to put in evidence until he had had an opportunity of cross-examining applicant's witnesses.

Sir Cornelius Dalton said he would report the hearing to the Board of Trade, and if further evidence is required he would let the parties know.

Mr. Sebastian said he desired to clear up the point that has been raised regarding the deception of the public. His contention is that to sell odol under any other name is equivalent to stating that it is not odol.

Sir Cornelius Dalton: I do not agree with you. In the aspirin case we had evidence that the same substance is sold under many other names, but no one suggested that the public was deceived.

Mr. Sebastian said he would endeavour to get further evidence if required.

Medical Gleanings.

Bovine and Human Types of Tubercle Bacillus.

DR. LEONARD FINDLAY and Dr. W. Blair M. Martin, of the University of Glasgow, in a paper read in the Section of Pathology and Bacteriology at the last annual meeting of the British Medical Association at Aberdeen on "The Effect of Daylight and Drying on the Human and Bovine Types of Tubercle Bacilli," state, as a general conclusion, that the bovine type is distinctly more susceptible to the prejudicial effect of ordinary atmospheric influences (daylight and drying) than is the human type of tubercle bacillus. This difference between the types may in part explain why aerial infection with the bovine type is so infrequent in human beings.

Body-vermin.

MAJOR MELEAN, dealing with military hygiene in a series of papers in the "British Medical Journal," made the following references to the methods of dealing with body-lice. Referring to the head-lice, he said that the substance by which the nit is attached to the hair is soluble in 10 per cent. of acetic acid. Kerosene and all volatile hydrocarbons destroy the head-lice. Kerosene and olive oil (equal parts) left on for twenty-four hours, and then washed off, will remove the lice. Five per cent. of mercuric oleate in ether is effective. For the clothes-lice the military authorities are using a solution of soft soap (20 per cent.) with $\frac{1}{2}$ per cent. lysol; it is worked to a lather and applied to the body, and rubbed into the seams of the clothing. The smell of lysol is supposed to be an inhibitor. One of the best preparations, and agreeable in use, is 30 per cent. of borax in powdered black hellebore root; this is alleged to prevent reinfection. For rooms, 5 per cent. of kerosene in a 20-per-cent. soap emulsion kills vermin in chinks of the floors. Mice are destroyed by pills containing 4 per cent. of phosphorus; and iodoform across the threshold will keep out fleas.

Treatment of Frost-bite.

DR. W. CHARLES DAVIS, Liverpool, states ("Lancet," I., 1915, p. 676) that he has found the following the best treatment for painful frost-bitten feet. An application is made as follows:

Cocainæ	...	...	...	gr. viij.
Ol. olivæ	...	...	...	3iv.
Liq. calcis	...	...	...	3iv.

A small quantity is rubbed into the feet twice daily, special attention being given to the toes. The feet are massaged with it for a few minutes, and are afterwards wrapped up in cotton-wool. It is an improvement to add one ounce of liquid paraffin to four ounces of the carron oil, as this prevents it oxidising so quickly and also from drying up so rapidly, and makes it less liable to rancidity. When the oil dries on the feet the following dusted on is an excellent powder:

Camphor.	...	...	...	gr. xxxv.
Zinci oxidi,	...	...	...	
Pulv. amyli	...	...	...	aa. 3ss.

In all Dr. Davis's recent cases in which there has been no ulceration it has been entirely successful. One advantage of this form of treatment is that the patient is able to sleep without any narcotic. When the acute stage passes off, the carron oil and cocaine are mixed with equal parts of carbolic oil, the percentage of which is increased as the pain decreases.

Pyorrhœa Alveolaris.

THE antiseptic properties of emetine have found a new application in the cure of *Pyorrhœa alveolaris*, or Rigg's disease, which was quite fashionable in this country two years ago. The discovery of the curative properties of emetine in cases of this kind is due to Drs. Barrett and Smith, of the University of Pennsylvania, and other workers, who find that the disease may be arrested by its administration. They ascertain that amœboid organisms are commonly present in the mouths of those who suffer from Rigg's disease, and also found them in the pus-sacs around pyorrhœic teeth. It is therefore concluded that:

"Emetine is a true amœbicide, and so far its use in cases of pyorrhœa has been attended with wonderful results. The drug is used either topically or by hypodermic injection, and, of course, must be supplemented by local treatment by the dentist. The flow of pus usually stops after the second treatment, and thereafter healing is rapid, and the teeth in most cases again become fast in their sockets, unless, of course, there has been destruction of the tissue. The treatment is being extended to other complaints attended by infections of obscure origin, especially the suppurative form of nasal catarrh, where local applications of emetine are proving most helpful in arresting the infection."

We quote from "Drug Topics," the bright little monthly which is published by McKesson & Robbins, New York. It is a journal in miniature, brightly written, yet full of things that matter.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

RE-ASSEMBLING OF PARLIAMENT.

Both Houses of Parliament re-assembled on Wednesday, April 14, after the Easter recess. It has been decided that, so far as the House of Commons is concerned, the sittings shall only be on Tuesday, Wednesday, and Thursday in each week.

BRITISH DYES, LTD.

Mr. J. M. Robertson, M.P., announced in the House of Commons on Wednesday that the British Dyes, Ltd., had gone to allotment, and that the number of shares allotted to date was 630,452.

INOCULATION AGAINST TYPHOID.

Mr. Tennant stated in the House of Commons on Wednesday that he had nothing to add to his previous reply as to what course his Department has decided to take with reference to the inoculation against typhoid fever of the officers and men of H.M. land forces.

Scientific Progress.

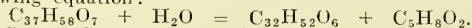
Temperatures under this heading are on the Centigrade scale.

Delicate Reaction for Apomorphine.—L. Grimbert and A. Leclère ("Jour. Pharm. Chim.," 1915, 23) state that the characteristic blue coloration produced by the oxidation of apomorphine-hydrochloride solutions by atmospheric oxygen can be intensified as follows: 5 c.c. of the solution is mixed with 5 drops of a saturated solution of mercuric chloride and 5 drops of 10-per-cent. solution of sodium acetate, boiled, and, after cooling, shaken with amyl alcohol, which dissolves the blue substances. As little as 0.002 per cent. of apomorphine can be detected.

Galbanum Oil.—Semmler and Jonas ("Berichte," 1914, p. 2068) have examined the essential oil distilled from galbanum resin. The oil had the following characters: Sp. gr. 0.9353, refractive index 1.49395, optical rotation +80°, and range of boiling temperatures at 15 mm. pressure 55° to 195°. The following constituents were isolated: Pinene, isopinene, myrcene, a ketone, $C_{10}H_{16}O$, cadinene, and cadinol. The last-named is a tertiary sesquiterpene alcohol of the formula $C_{15}H_{26}O$, sp. gr. 0.972, optical rotation +22°, refractive index 1.5070, and boiling-point at 15 mm. pressure 155° to 165°. It forms a liquid acetate.

Basic Lead-acetate Solution.—R. F. Jackson (Bulletin No. 232, Washington Bureau of Standards) has investigated the composition of solution of lead subacetate. He finds that, in addition to the free base, $Pb(OH)_2$, and the normal acetate, $(CH_3COO)_2Pb$, two double compounds may exist in equilibrium with the solution. The more important of these is represented by the formula $(CH_3COO)_2Pb \cdot 2PbO \cdot 4H_2O$, but there is a narrow range of compositions within which the compound $[(CH_3COO)_2Pb]_3 \cdot PbO \cdot 3H_2O$ is the stable phase. A complete equilibrium diagram for the system $H_2O : PbO : (CH_3COO)_2Pb$ is given.

Saponin of Styra Japonica.—Yasuhiko Asahina and Mikijiro Momoya have investigated the saponin obtained from *Styra japonica* ("Jour. Pharm. Soc. Jap.," 395, p. 1). They find that it is an acid occurring naturally as a calcium salt. It has the formula $C_{61}H_{92}O_{28}$, and on hydrolysis with dilute sulphuric acid yields glucose, glyceronic acid, and a mixture of α - and β -sapogenin. The sapogenins yield tiglic acid and a crystalline alcohol on saponification with caustic alkali. The authors have obtained the sapogenin, which they term Jogo-sapogenin, in a crystalline condition. It appears to be a lactone of the formula $C_{37}H_{56}O_7$, and is hydrolysed according to the following equation:



Sapogenin. Sapogenol Tiglic acid.

Sapogenol melts at 323°, and is a pentahydric alcohol forming pentacetyl and pentabenzoyl derivatives.

Solidifying and Melting Points of Spermaceti.—R. Meldrum ("Chem. News," 1915, p. 37) gives an account of an investigation undertaken with a view of attempting to determine the conditions which govern the relationship of the solidifying and melting points. Spermaceti was selected on account of its highly crystalline nature, the absence of a rise on setting, and its freedom from free fatty acids and glycerides. By Dalcan's method the solidifying-point was found to be 45.75°, the "rise" less than 0.05°, and the time the thermometer remained stationary ten minutes. Spermaceti repeatedly melted at 100° for periods of two and six hours, rapidly and slowly cooled, gave similar results, showing that the solidifying-point is unaffected by such treatment. Taking into account the pronounced crystalline structure of spermaceti and the small "rise," it would appear that there is no relation between crystalline structure and "rise." Increased speed of crystallisation (rapid cooling) was found to lower the solidifying-point; slow cooling gave a higher "rise"; the diameter of the tube was found to be without influence. As a result of several experiments, the author found that by the thermometer-bulb method and open capillary-tube method the melting-points are lower than the actual melting-point. This shows the presence of erratic phenomena, which modify the melting-point determination and are the cause of so much perplexity in the determination of melting-points. The conclusions arrived at are that speed of crystallisation, change in viscosity of melt, or rapid changes of density take no part in determining the point of solidification. The temperature to which the thermometer falls and remains stationary is apparently increased by the increased non-conductivity of the walls of the tube by solidified layers of wax. It was further found that small traces of impurities, such as glycerin and oleic acid, do not raise

or lower the solidifying-point or affect the "rise." Even 20 per cent. of sperm oil only lowers the solidifying-point 1.65°. With 5 per cent. of oil the reduction would only be about 0.2° below the normal. This strongly points to the fact that in such operations for either analytical or scientific purposes the thermometers used must be absolutely accurate and the degrees divided into 0.05 or less, as it is only by observing small variations above or below the normal that the purity of a substance can be determined.

Winter Session of Meetings of Trade Associations.

(See also "Insurance Act Dispensing.")

Norwich.—A meeting of the Norwich Pharmaceutical Association was held at the Castle Hotel on April 7, the President (Mr. G. C. Maynard) in the chair. M. Pattou, of Brussels, gave an address on *Belgian Pharmacy*. M. Pattou commenced with a brief description of Belgium, its geography, and its history, and went on to compare its condition now with what it was before war broke out. There is in Belgium only one kind of diploma for chemists, and this required four years' university training and one year's practical work. After obtaining this diploma a chemist is allowed to start in business where he likes, but he may not carry on any other business in the same shop. There were about 1,800 chemists in Belgium, or one for every 4,000 inhabitants. The chemist in Belgium has an absolute monopoly of dispensing medicines, except in a few districts where doctors are authorised to dispense. The professional Association is a very strong one, with branches throughout the country, united in a National Association, which includes about 1,500 members out of 1,800 pharmacists in the whole country. The Association has been able to give to its members many advantages; it had established, for instance, a Joint Committee for buying drugs, and one for supplying medicines to Friendly Societies. In 1904 the Belgian Parliament passed a law dealing with compensation for accidents to working men, and the Chemists' Association at once made a contract with the insurance companies to supply drugs and appliances. Two months before the outbreak of the war a Bill was introduced to provide for health insurance. Owing to the representations of the Society of Pharmacy, the Bill was drawn up in a manner favourable to chemists. He (M. Pattou) had the advantage of a conference with Mr. Woolcock regarding the working of the British National Insurance Act. The financial position of the Belgian chemist is not flourishing, and since the German occupation most of the businesses have been closed or ruined. M. Pattou expressed the deep gratitude of the people of Belgium to the people of England for all the help they have rendered. A vote of thanks was passed to M. Pattou, and was suitably acknowledged.

Nottinghamshire.—The annual meeting of the Notts County Pharmacists' Association was held at Mansfield on April 7, the President (Mr. Briggs) presiding over a small attendance. In his annual report the Secretary stated that two new members had joined during the year, making a total membership of forty-six. He also referred to the good work the Pharmaceutical Committee had done. The pharmacists on the county panel are very favourably placed compared with other counties. They are paid promptly and in full, and the amount retained is less than the amount suggested by the Commissioners. The Secretary reported that he had done all that was possible to get the Insurance Committee to recommend the Insurance Commissioners to remedy the injustice of the mile-limit, but the Committee pointed out that until they received complaints from the insured persons they cannot move in the matter. A circular has been sent to every chemist on the panel asking him to contribute 1d. in the pound received for N.H.I. dispensing towards the expenses of the Pharmaceutical Committee. A gratifying response has resulted. Mr. Adams (the Treasurer) reported a balance in hand of 15l. 15s. 3d., and the meeting voted two guineas each to the Benevolent Fund and the Belgian Doctors' and Chemists' Relief Fund. The following officers were elected: *President*, Mr. F. J. Dickenson (Mansfield); *Vice-President*, Mr. G. W. Blankley (Arnold); *Treasurer*, Mr. B. Adams (Mansfield); *Hon. Secretary*, Mr. A. H. Bell (Mansfield). A vote of thanks was passed to the retiring President (Mr. Briggs), to the Secretary, and to the Treasurer, whose services the members heartily acknowledged.

Paisley.—The President (Mr. A. Fraser) gave an informative sketch of the career and work of Louis Pasteur at a meeting of the Paisley Pharmaceutical Association held in the George Temperance Hotel on April 8.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Inquiry by the Commissioners.

A Committee of Inquiry, appointed by the Commissioners, sat at the offices of the Commission, Buckingham Gate, London, S.W., on April 13, to hear a representation by the London Insurance Committee that the continuance on the panel of Dr. Michael Beauchamp Dooley, 18 Lambeth Walk, Lambeth, S.E., would be prejudicial to the efficiency of the medical service under the Act. The Committee does not sit in a judicial capacity, but reports relevant facts to the Commissioners, who afterwards announce their decision. On this occasion the Committee of Inquiry consisted of Mr. J. Fischer Williams (barrister), Dr. J. P. Williams-Freeman (Andover), and Dr. H. B. Brackenbury (London), with Mr. E. MacGowan (Clerk). Mr. T. Mathew conducted the case for the London Insurance Committee. Dr. Dooley was not present, nor represented. After formal evidence had been given that notices as to the date of the hearing had been sent to Dr. Dooley and his solicitors, Mr. Mathew, in opening his case, said that the facts were that Dr. Dooley had given way to drink. He had attended panel patients while intoxicated, and had been seen in the streets under the influence of drink. There was a further complaint to the effect that Dr. Dooley had signed Sickness Benefit certificates for an insured patient without seeing her, with the result that the person in question was enabled to obtain Sickness Benefit while actually at work. A number of witnesses were called in support of these charges, and Mr. Mathew, in summing up, submitted that, on the evidence, which was uncontradicted by the doctor, the Committee must come to the conclusion that the charges had been substantiated.

The inquiry then concluded, the Chairman announcing that the decision of the Commissioners would be issued in due course.

Reports from Local Centres.

With special reference to the supply of medicines and appliances. See also Winter Session.

ENGLAND.

Bath.—Mr. A. E. Withy presided at the meeting of the Insurance Committee held on April 8, when the Medical Benefit Sub-Committee reported the final credit in respect of the Medical Benefit Fund for 1913 received from the Commissioners. The figures showed that the gross final Medical Benefit credit was 8,309*l.* 18*s.* 7*d.*, the rebate to societies in respect of reduced contributions payable under Section 48 (2) was 5*l.* 2*s.*, and net final Medical Benefit credit was 8,304*l.* 16*s.* 7*d.*; the net Medical Benefit credits previously advised were 8,102*l.*, leaving a net additional credit of 202*l.* 16*s.* 7*d.* The Chairman stated that he did not know how the balance would divide out among the various funds, but he was sure that there would be more than sufficient to cover the supposed over-payments to the doctors for that year, and he was hopeful that there would be a very large contribution to chemists' payments for the same period.

Blackburn.—It was reported to the Insurance Committee on April 13 that the Pharmaceutical Committee had asked whether a report had been sent by the Panel Committee in reply to their representations in regard to excessive prescribing by certain practitioners, or if any action had been taken thereon. The Secretary was instructed to communicate with the Panel Committee and ascertain their views on the question. The Joint Checking Sub-Committee has asked the Pharmaceutical Committee to consider what economies could usefully be effected in prescribing, and to report to the Panel Committee. The Joint Checking Sub-Committee considered a number of prescriptions which, in the opinion of the checker, were excessive in quantity or quality, and these were ordered to be forwarded to the Pharmaceutical Committee for their views. It was stated that many practitioners still gave repeat prescriptions, and the Clerk was instructed to call the attention of the Panel Committee to the matter. The Clerk reported that he had paid 80 per cent. of the chemists' accounts for January 1915. The prescriptions for that period numbered 18,235, the amount claimed was 616*l.*, and the amount allowed 614*l.* The average cost per prescription was 8.11*d.* A resolution was passed welcoming the pronouncement by Mr. E. S. Montagu to the pharmaceutical deputation last week, and asking for the early appointment of a Departmental Committee to inquire into the causes of, and the remedies

for, the continuing deficiencies in the Drug Fund and an amendment of Article 40 of the Medical Benefit Regulations. [The Commissioners have now replied to a recent communication from the Committee on that subject, stating that the difficulties in Blackburn are mainly due to the failure of the Panel Committee to furnish a report of the nature contemplated by the Regulations. After explaining in detail what Panel Committees should do, the Commissioners conclude by observing that present machinery for the control of extravagance, etc., rests largely in the hands of practitioners, and, if that machinery is not adequate, some alternative and more effective machinery will require to be introduced.] Regarding the proposed establishment of a Central Checking Bureau for checking, analysing, and scrutinising prescriptions, it was officially estimated that the cost for dealing with a million would be 876*l.*, or about 17*s.* 6*d.* per 1,000. The salary of a male superintendent with technical qualifications is put down at 175*l.*; female checkers with Minor or Apothecaries' Hall certificates, 247*l.*; and the remainder is made up of wages for female clerks, female sorters, a porter, lighting, and general establishment charges. It was stated that the Welsh Committees during 1914 paid 1,345*l.* for checking 1,750,000 prescriptions, equal to 13*s.* 7*d.* per 1,000.

Buckinghamshire.—It was reported to the Insurance Committee on April 1 that there remained in the Drug Fund only 376*l.* to meet the chemists' accounts due next month. The Committee decided to apply to the Commissioners for a draft of 1,500*l.*

Essex.—The Pharmaceutical Committee met in London on Tuesday, April 13, when it was reported that the pharmaceutical objections to "Rep. mist." prescriptions had been placed before the Joint Drug Committee by the Chairman and Mr. James Matthews, with the result that Dr. Leigh Day (Chairman of the Panel Committee) stated that careful consideration would be given to the matter with a view to minimising the difficulties as much as possible. A report was also submitted on the checking of prescriptions, the effect of which is substantially that in order to ascertain what may be regarded as over-charges the analysis is confined to those which exceed 10*d.* each, 8*d.* being the average charge. The Panel Committee is now considering a dissection of the prescriptions of twenty-six medical men so isolated. Several hundred cases have been dealt with, and the medical men concerned have been written to semi-officially. The conduct of only one chemist has been queried, and his explanation was satisfactory.

Gloucestershire.—In accordance with the views of the Commissioners, chemists are to be paid 90 per cent. of the amounts of their accounts for the quarter ended March 31, provided the payment does not amount to more than 4*d.* per insured person. Panel practitioners are to be paid 77 per cent. of the amounts due to them.—At a meeting of the Gloucester City Insurance Committee on April 12 it was decided to ask the Panel Committee to consider and report on the following suggestions: (a) That "Rep. mist." shall be used only when the original prescription has been written in the same month, and shall in all cases refer to the last prescription written for any particular patient; (b) that "Rep. omnia" shall be discontinued entirely; and (c) that, unless in very exceptional cases, not more than 8 oz. of mixture shall be ordered at one time. It was reported that chemists had been paid 90 per cent. of the amounts of their accounts for January (99*l.* 10*s.*). The February and March accounts together amounted to 155*l.* It was resolved that 70 per cent. of this amount be paid on account.

Hastings.—It is anticipated that chemists' accounts for 1914 will be paid in full.

Herefordshire.—At a recent meeting of the Insurance Committee the Finance and General Purposes Sub-Committee reported consideration of a communication from the Pharmaceutical Committee regarding the Tariff. The Sub-Committee recommended the following additions to the Tariff: (a) Minimum charge of 1*d.* for all articles on the Tariff not bearing a dispensing-fee; (b) minimum charge of 4*d.* on all prescriptions (including dispensing-fee); (c) hours of service to be limited to ordinary business-hours, except in urgent cases; and (d) distilled water to be used only when prescribed. Regarding "Repeat" prescriptions, the Sub-Committee considered that all prescriptions should be written in full after the expiration of each calendar month. The Sub-Committee further recommended that the consent of the Commissioners be obtained to the allotment to the Pharmaceutical Committee of $\frac{1}{4}$ *d.* per insured person on the doctors' lists for administrative expenses, and that 90 per cent. of the chemists' accounts for the quarter ended March 31 be paid. The report was adopted.

Leicestershire.—The deficiency in the Drug Fund for the medical years 1913 and 1914 amounts to about 2,000*l.* In Leicestershire there is a surplus.

Liverpool.—An epitome of the proceedings of the Medical Benefit Sub-Committee on March 23 states that, with regard to a communication from the Pharmaceutical Committee requesting the Insurance Committee to take steps to have the Drug Fund placed on a sound basis, it was reported that the Pharmaceutical Committee had been informed that before any action could be taken it would be necessary for that Committee to put Regulation 40 into operation. The Pharmaceutical Committee had replied that it had decided to do so, and requested certain necessary information (*C. & D.*, April 10, p. 42). It was decided that the required information be supplied. The Chairman (Dr. Wafer Byrne) and the Secretary, as delegates to the conference at Blackburn regarding the establishment of a Central Checking Bureau for the county, reported on the proceedings of the conference. A motion supporting the resolutions passed at the conference was agreed to, and copies directed to be forwarded to the Chancellor of the Exchequer, the Right Hon. E. S. Montagu, M.P., Sir Robert Morant, and the local members of Parliament. It was resolved that such advances be made to doctors and chemists for the quarter ended March 31 as may be found to be available when the credits are received from the Commissioners. The estimate of the Panel Committee for administrative expenses for 1915 (120*l.*) and that of the Pharmaceutical Committee (150*l.*) were approved, and it was resolved that advances of 30*l.* to the former and 37*l.* 10*s.* to the latter Committee be made. It was also resolved that, subject to the approval of the Commissioners, an additional 150*l.* be allotted to the Pharmaceutical Committee for work connected with the checking and analysis of the 1914 prescriptions.

Middlesex.—A meeting of the Insurance Committee was held on April 12, Mr. W. S. Glyn-Jones, M.P., presiding. On the recommendation of the Finance and General Purposes Sub-Committee, the Committee rescinded a resolution passed at the previous meeting, that a panel practitioner be surcharged 32*5*/₈ *s.* 8*1*/₂ *d.* in respect of extravagant prescribing, and referred the matter back to the Panel Committee for further consideration. It was explained that the practitioner had only been given the opportunity of appearing before a Sub-Committee of the Panel Committee, whereas, according to a recent decision of the Commissioners, the practitioner had the right to be heard by the full Panel Committee. The decision of the Commissioners in an appeal by a practitioner against a surcharge was submitted, and the matter was referred back to the Panel Committee. The Medical Service Sub-Committee reported consideration of seven complaints by insured persons against panel practitioners, six of which had not been substantiated. The seventh case was adjourned for further consideration. It was decided to request the Commissioners to make the necessary apportionment of the final Medical Benefit credit for the medical year 1914 among the various funds of the Committee.

Northumberland.—The Insurance Committee on April 9 decided, on the recommendation of the Finance Sub-Committee, to pay to chemists 75 per cent. of the sum estimated to be available in the Drug Fund for the quarter ended March 31, 1915.

Norwich.—It was reported to the Insurance Committee on April 6 that 2,915*l.* had been paid to panel chemists for the medical year 1914. The Finance Committee recommended payments to chemists of 90 per cent. of the amounts of their accounts for the quarter ended March 31, but, in view of the receipt of a letter from the Commissioners on the subject of advances, it was decided to communicate with the Commissioners before dealing with the chemists' accounts.

Plymouth.—At a meeting of the Medical Benefit Sub-Committee on April 6, the Clerk reported that 316*l.* is due to the old Plymouth area and 175*l.* to the old Devonport area as a result of the corrected count of insured persons for 1913, and that the Commissioners have offered to allocate these amounts to the separate areas for distribution to the doctors and chemists. Correspondence with the Commissioners was read regarding the delay in checking the 1914 prescriptions, and it was suggested that the Panel and Pharmaceutical Committees should be consulted with a view to effecting a saving by combining the work of scrutinising and checking. The delay has been caused by the fact that the new Panel and Pharmaceutical Committees for the amalgamated areas have not yet been constituted (*C. & D.*, February 20, p. 55). A letter was read from the Commissioners stating that proposals for constituting these Committees are being forwarded to the respective Secretaries. The draft scheme, so far as the Pharmaceutical Committee is concerned, proposes to include the eight members of the Devonport area, together with the eight members of the Plymouth area and one member

of the Devonshire Committee, who represented Stonehouse, to constitute the Plymouth Pharmaceutical Committee until July 1916, when the number will be reduced to eight. The Chairman of the Panel Committee stated that the doctors are having many cases of breakdown through overwork, especially from the dockyards; that this would result in a higher rate of sickness; and that, generally, the best lives among the insured had been called away owing to the war. He also drew the attention of the Committee to the fact that the constantly advancing prices of drugs would preclude the possibility of any measures of the Panel Committee being effective in reducing the drug-bill to within the allotted amount. It was decided that all panel practitioners should be asked to write new prescriptions from the first of each month, so that no delay might arise in supplying medicines to the insured. Notices are to be sent to all panel chemists advising them that in all cases where repeats are dispensed during a current month, such repeats must be pinned to the original prescription, otherwise payment will not be made. This rule will be enforced from May 1.

Yorkshire (East Riding).—A meeting of the Pharmaceutical Committee was held on April 8, when the Secretary reported as to the final negotiations in regard to the 1915 Tariff and the Commissioners' interpretation of the stock-mixture clause. The "Rep. mist." question was again considered, and, in view of the experience of the past two years, it was decided to forward a resolution to the Insurance Committee to the effect that, in the opinion of the Pharmaceutical Committee, the use of "Rep. mist." should no longer be allowed, on the grounds that (a) the practice is detrimental to the best interests of the insured; (b) there is considerable danger of the patient receiving the wrong medicine where there are two insured persons of the same name; (c) the use of "Rep. mist." conduces to unnecessary prescribing; and (d) the practice throws a large amount of unnecessary labour on the chemist. The payment of accounts was discussed, and the Committee approved of quarterly in place of monthly payments, owing to the difficulties in regard to the latter system. The following statistics for the first quarter of 1914 were submitted: Number of insured persons, 18,860; number of prescriptions, 15,131; average cost per script, 8*4*/₈ *d.*; average cost per insured person, 6*7*/₈ *d.* It was reported that a scrutiny of these prescriptions had been carried out by the Chairman and Secretary, and it was decided that, owing to the time that had elapsed and to the fact that proprietary articles were allowed during part of the time, no observations be made, but that the figures and information obtained be kept for future reference.

Yorkshire (North Riding).—The Insurance Committee met on April 10, when the Finance Sub-Committee reported that, as the final credits for the medical year 1914 had not been received from the Commissioners, payments to chemists in respect of their last accounts for the year had been withheld. The Committee approved. It was decided to pay 75 per cent. of the amounts of chemists' accounts for January 1915 (330*l.*). The Clerk reported that he had attended a meeting of the Panel Committee for the purpose of securing the consent of the Committee to a flat rate for prescriptions. The Panel Committee's approval of the flat-rate principle had since been received. A motion by Dr. Candler, the effect of which might have deprived the Pharmaceutical Committee of its expenses, was lost.

SCOTLAND.

Dumbarton.—Mr. John Weir, pharmacist, Clydebank, who was nominated by the Chemists' Friendly Society, has been unanimously elected a representative of the "B" Societies on the Insurance Committee, which now has two pharmacists upon it, the other being Mr. Thomas Guthrie.

Fifeshire.—Chemists' accounts for February amount to 600*l.* (unchecked), and chemists anticipate discounting, probably to the extent of 40 per cent. (*C. & D.*, April 10, p. 36).

Forfarshire.—The annual report of the Clerk to the Insurance Committee, recently issued, indicates that the number of insured persons on the register at January 1, 1915, was 26,289, and the number on the doctors' lists 21,101. The provisional credit for Medical Benefit for the area for 1914 was 9,422*l.*, representing an insured population of approximately 21,000.

WALES.

Denbigh.—The Clerk, in his report upon prescriptions presented to the Insurance Committee on April 7, stated that in one area during 1914 an average of six bottles of medicine had been supplied per insured person, in all 25,000—more than a quarter of the total for the county.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

In regard to quotations for synthetic chemicals and other products obtained hitherto chiefly from Germany and other Continental countries now engaged in war, it should be noted that some of these are strictly nominal, and are not general, but are prices of limited supplies quoted by individual holders and second-hand dealers. Most offers at present made by circular are "without engagement," and subject to the articles being unsold. In many instances higher prices than those quoted in this Report, for various reasons, are being paid. As regards British products, there is difficulty in obtaining supplies for prompt delivery, these including bromides, iodides, bismuth and mercurial salts, atropine, morphine, codeine, etc.

42 Cannon Street, E.C., April 15, 6.30 p.m.

ALTHOUGH price-alterations are fewer this week, there is a good undertone in chemicals and drugs. Among the so-called fine or synthetic group of chemicals business is now considerably restricted owing to the inadequacy of supplies and to the fact that imports from the United States (where prices in many instances are above those of London) are becoming less and less. It should be noted, however, that present rates are at a dangerously high level as a result of the recent "rush," and buyers will need to exercise caution, as when further supplies become available from neutral and allied countries a reaction is inevitable. The British Government has now assumed control of the supply of carbolic acid from the principal makers, and only very limited quantities appear to be available from dealers. Iodide-makers are extremely busy, and bromides are in brisk demand. Lemon oil is weaker, but firmer rates are asked for bergamot and orange oils; lime oil is very scarce. Cod-liver oil lacks interest at the recent easier tendency. Glycerin is unchanged, with a restricted business; crude antimony continues to advance. Chloroform is 2d. dearer. Ammonia sulphate, copper sulphate, mercury, and opium are on the easier side. Scammony-root and vanillin (to arrive) are offered at cheaper rates. Sodium silicate is dearer.

Higher	Firmer	Easier	Lower
Antimony (erude)	Bergamot oil	Ammonia sulphate	Area
Chloroform	Camphor ref. (slabs)	Buchu	Canary-seed
Cumin-seed	Cloves	Cardamoms	Ipeacuanha (Cartag.)
Dragon's-blood (seedy lump)	Cotton-seed oil	Cod-liver oil	Scammony-root
Gambier	Orange oil	Copper	Vanillin (to arrive)
Honey	Sarsaparilla	Coriander seed	
Linseed oil	(grey Jam. and native)	Hydrastis	
Mace (W.I.)	Senega (N.Y.)	Mercury	
Mustard-seed		Opium	
Petroleum		Turpentine	
Soda silicate			

Cablegrams.

NEW YORK, April 14.—Business in drugs is active. Opium is 10c. per lb. lower at \$7.30 per lb. for druggists'. Peppermint oil is firmer at \$1.60. Menthol is easier at \$2.85. Balsam Peru has been advanced to \$2.65. Belladonna-leaves have been reduced to \$1.15, and senega is firmer at 45c. per lb.

BERGEN, April 15.—The cod-fishing at Lofoten is now closing, and that at Finmarken has not yet opened. The market for finest non-congealing Lofoten oil is dull at about 170s. per barrel c.i.f.

London Markets.

ACETANILIDE.—Although scarce at the moment, is likely to be more plentiful in a month or two. American tar-distillers hope to be in a position to offer in a couple of months, when a decline is expected.

ACETONE according to B.G. specification is quoted at 125s. per cwt. c.i.f. London in drums and 120s. to arrive.

ACETYL-SALICYLIC ACID can be bought in small lots at 20s. to 22s. 6d. per lb., but some sellers ask more.

AMMONIA SULPHATE is cheaper. London is quoted at 12l. 12s. 6d. to 12l. 15s. per ton net naked at works for 25-per-cent. ammonia; Hull, 24-per-cent., is 13l. 3s. 9d.; Liverpool is 13l. 5s.; and Leith 13l. 12s. 6d. per ton in bags, less 3½ per cent. f.o.b.

ANTIMONY.—Chinese crude is quoted 60l. to 62l. net on spot and 58l. c.i.f. net for shipment.

BALSAM TOLU.—Business has been done in fair hard at 2s. 3d.; new lots are now landing, but several weeks may elapse before they are available.

BERGAMOT OIL is regarded as a rising market in Italy, and recent firm offers are now without engagement.

BROMIDES.—The temporary deadlock in the supplies of the salts from British makers is likely to continue for some time. The American makers have ample stocks of the salts, and fair quantities are selling from agents' hands daily on the basis of 4s. for potassium, 3s. 9d. for ammonium, and 3s. 6d. for sodium.

CALUMBA.—Good heavy sound sorts are scarce and wanted, and probably 50s. would be paid; fair ordinary offer in limited quantity at 35s.

CAMPHOR (REFINED).—The sales include 25 cases Japanese 2½-lb. slabs at 1s. 9d. on spot.

CANARY-SEED is lower at 93s. to 95s. per quarter for ordinary to good Morocco.

CARBOLIC ACID.—The British Government have now taken control of the output of the principal producers, paying, it is said, 1s. 4d. per lb. for their supplies of ordinary crystals (39° to 40° C.). In dealers' hands small lots are available at from 1s. 6d. to 1s. 9d. per lb.

CASSIA FISTULA.—The chief stocks are said to be in the hands of one importer, whose price at the moment is 27s. 6d., but may go higher.

CASTOR OIL of English make for forward delivery (May-December) is quoted at 36l. 15s. per ton in barrels, and first-pressing 34l. 5s. f.o.b. Hull; cases 55s. per ton extra. April prices are more or less nominal at about 8l. per ton higher prices.

CHALK (PRECIPITATED) of finest quality is quoted at 12l. per ton in 5-cwt. casks net free ex wharf London or c.i.f. U.K. ports for not less than ½-ton lots; 2-cwt. casks are 12l. 10s., and 1-cwt. casks 13l. per ton.

CHILLIES.—In Liverpool 35 bags Sierra Leone sold at 89s. per cwt. ex quay.

CHLORAL HYDRATE.—To come forward or from consignments on the way from the United States, crystals in bond are offering at 4s. per lb.

CHLOROFORM.—The makers have advanced the price of pure B.P. by 2d. per lb., the list quotation being 2s. 1d., 50 lb. 2s., 2½ cwt. 1s. 11d., and half-tons 1s. 10½d. Pure B.P. from S.V.R. is unchanged at from 5s. 7d. to 5s. 10d. per lb. as to quantity; prices are without engagement.

CLOVES are dearer, sales having been made at 7½d. for fair Zanzibar, but sellers now ask 7½d. April-June shipment is quoted 6½d. c.i.f. d.w., and June-August delivery 6½d. to 7d. At auction 50 bales Zanzibar were bought in at 7½d. and 30 cases picked Penang at 1s. 2d.

COCAINE.—There is a tendency of Continental makers to ask inflated prices, in spite of coca-leaves being actually cheaper. Supplies of hydrochloride are coming forward from the United States at prices appreciably below the Continental supply, and a decline may presently be expected. Business has been done at 15s. per oz. to arrive.

COD-LIVER OIL.—Our Bergen correspondent writes on April 6 that the Lofoten cod-fishing is now drawing to a conclusion, with the final result proving rather disappointing. The total Lofoten results up to the Easter holidays were about 13 millions of cod, against 10½ millions in 1914, 8 millions in 1913, and 14½ millions in 1912. After the holidays the fishing is usually undertaken by a limited number of fishermen. The Finmarken fishing, which is now about to commence, depends to a great extent on the weather, and as yet nothing can be said as to prospects. The official report give the following total results of all Norwegian cod fisheries up to April 5:

	1912	1913	1914	1915
Catch of cod (millions)...	57.6	30.7	52.7	43.0
Yield of c.l.o. (hect.) ...	44,600	20,500	40,000	35,500
Yield of liver for raw oils (hect.) ...	6,600	4,700	7,000	5,600

On account of the holidays there has been practically no business during the past week. The price of 180s. per barrel for prime non-congealing oil is merely nominal, and apparently buyers are holding aloof.

A Bergen advice, dated April 6, quotes 1915 finest non-freezing steam-refined oil at from 170s. to 180s. per barrel f.o.b. Hull, war-insurance extra, without engagement.

A London dealer's report "inclines to the view that the present slightly weaker tendency may be due to difficulties in financing the weekly catch, which just now, as is usual at this period, is somewhat heavy, but that supplies will barely, if at all, be sufficient to meet consumption, and it is anticipated that high prices are likely to rule this season." In London agents' prices continue without material change at between 170s. and 180s. c.i.f. and 180s. to 185s. on the spot.

COPPER SULPHATE.—Liverpool is cheaper at from 27l. 15s. to 28l. per ton for best brands for May-June delivery.

CORIANDEER-SEED is easier at 11s. 6d. to 12s. per cwt. for good Morocco.

CREAM OF TARTAR of 99-per-cent. powder to come forward is offered at 140s. per cwt.

CEMIN-SEED is dearer, good Morocco having been sold at 85s. per cwt.

ERGOT.—Fair spot stocks are available, Spanish offering at 2s. 10d. and fair 2s. 7d.

EUCALYPTUS OIL.—Stocks continue large and demand quiet, with 70-per-cent. eucalyptol offering at 1s. 3½d.

FORMALDEHYDE is offered at 54s. per cwt. in casks for 40-per-cent. volume.

GINGER.—Spot holders in Liverpool have advanced their prices for Sierra Leone to 25s. per cwt.

GLYCERIN.—A London dealer's report intimates that business continues restricted owing to many difficulties arising out of the war. Transactions for export which are not hampered in some way or other are scarce. There being no free market or exchange with other countries, distilled qualities remain firm, since this country is now supplying practically its entire requirements. This probably is rather a heavy strain on the distilling capacity of British works. On the other hand, crude glycerin, which is produced here in larger quantities than wanted for home consumption, has for some time been rather neglected, which is due merely to facilities for export, even to friendly and neutral countries, not being readily granted. The official prices are: Chemically pure double-distilled, s.g. 1.260, 104s. per cwt. in cases, and 100s. in drums, for home consumption only, for contracts of not less than 5 tons; smaller lots extra according to scale. For export to non-barred countries prices are from 4l. to 5l. per ton less, according to quantity.

GUM ACCROIDES.—We notice an arrival of 355 bags from Adelaide under the title of "Yacca" gum.

HEXAMINE is quoted at from 3s. 4d. to 3s. 6d. per lb.

HYDROQUINONE is offered at 8s. 6d. per lb.

LEMON OIL.—Advices from Sicily indicate an easier market, and for shipment 3s. 5d. to 3s. 7d. per lb. c.i.f. London is quoted without engagement. On the spot stocks are good, and from 4s. to 4s. 6d. is quoted.

LIME OIL.—West Indian distilled is unobtainable from first-hands, and dealers have sold limited quantities up to 3s. 6d.

MACE.—At auction 130 packages West Indian sold at higher rates, red and mixed descriptions realising at an advance of 2d. to 5d. and good pale 4d. to 5d.

MENTHOL remains unaltered, with spot sellers at 11s., and sellers of April-May shipment at 12s. 6d. c.i.f. for Kobayashi-Suzuki.

MERCURY is quoted 12l. to 12l. 5s. per bottle.

METHYL SALICYLATE is selling at 8s. per lb.

METHYL SULPHONAL is offered to arrive at 22s. per lb.

MINT OIL.—Japanese dementholised is quoted 2s. 8d. to 2s. 9d. c.i.f.

MUSTARD-SEED is dearer. For good English yellow 44s. per cwt. is asked.

NUTMEGS.—At auction 504 packages West Indian and 77 packages limes Java met with a good demand at steady rates.

OLIVE OIL.—Genuine French Provence oil (1915 season) is quoted at from 6s. 1d. to 6s. 6d. per gal., according to size of cask, for "finest sublime"; 5s. 11d. to 6s. 4d. for "extra surfine," 5s. 9d. to 6s. 2d. for "surfine," 5s. 1d. to 5s. 6d. for druggists' quality (B.P.), and 4s. 9d. to 5s. 2d. for druggists' quality, c.i.f. principal U.K. ports in lots of not less than 10 cwt.

OPIMUM.—Market continues quiet, with 11-per-cent. Turkey offering at from 22s. 6d. to 23s. and 12-per-cent. 24s. to

24s. 6d. on the spot, and to arrive about 18s. 6d. per lb. c.i.f. is quoted. Persian is quoted at from 17s. to 21s., according to test. Over 1,100 cases of Persian have arrived in this country during the past fortnight.

ORANGE OIL.—Recent firm offers from Sicily have been withdrawn in one quarter owing to the rising market.

PEPPERMINT OIL.—Business in good brands of American tin oil has been done at 7s. 3d. on spot, but holders now ask 7s. 6d. Distillers in the West are asking higher prices.

PETROLEUM is ¾d. per gal. higher at 8¾d. for American and 9¾d. for water-white.

PETROLEUM-JELLY is offered at prices varying from 17s. to 58s. per cwt. in barrels, the latter figure being for white B.P. quality.

PHENACETIN is selling at from 16s. 6d. to 17s. 6d. per lb.

PHENAZONE.—Agents are waiting for supplies to come forward from Switzerland, which will be offered at reasonable prices.

PIMENTO.—At auction 200 bags fair were bought in at 2½d.

POTASH PERMANGANATE.—Spot prices continue very irregular, according to the idea and stock of seller. The lowest quotation we have heard of is 156s., ranging up to 165s. and more.

POTASHES.—First American offer at 65s. per cwt.

SALICYLATES.—The parcels which are expected from France in May should help to relieve the pressure considerably, and no scarcity is expected after this month.

SALOL has been sold at from 7s. to 7s. 6d. per lb., and the latter price is a fair market value.

SCAMMONY-ROOT is offered at the lower price of 27s. 6d. per cwt. c.i.f. for 17 to 18 per cent.

SODA, CAUSTIC.—Makers are refusing further orders, and although official prices are unaltered at the moment they are likely to advance, and a premium has to be paid from dealers' hands.

SODA SILICATE.—Lump has been advanced 10s. per ton for all markets, and in solution-form by 5s. per ton.

TERPENTINE has declined to 36s. 6d. per cwt. for American on spot.

VANILLIN is scarce on spot, with sales of small lots at 22s. 6d. per lb.

WAX, PARAFFIN, of B.P. quality (130 to 135 m.p.) is quoted at 3½d. per lb., and 140 to 145 m.p. 4½d. ex warehouse London.

London Drug-auctions.

Commercial Sale Rooms,

Mining Lane, E.C., April 15.

At the drug-auctions to-day demand was on the whole poor, with few changes in value. Cape aloes were held for previous prices, but met with no demand; common Zanzibar sold without reserve. Areca of new import sold cheaply, and a line of 50 cases star-anise oil (naval prize) sold at bargain-prices. Sumatra benzoin is scarce at the moment and held for much higher rates. Cardamoms were flat and generally easier. Cubebs sold steadily; calumba and cascarilla-quill are scarce. Reboiled dragon's-blood sold privately at previous high figures. Guaiacum steady. Cuban and Jamaica honey realised higher rates, with good competition. Cartagena ipecac. is 6d. cheaper; Rio was not offered. Rhubarb was in more demand at steady rates, and for grey Jamaica sarsaparilla prices were "full up" to 1d. dearer; Lima was steady and native dearer. Common Timnevelly senna brought very high prices. Beeswax was quiet, but steady. The table below shows the quantity of goods offered and sold:

Offered		Sold		Offered		Sold	
Aconite (Jap.).....	10 ... 0	Calumba	40 ... 0	Aloes—			
Cape	68 ... 4	Castella alba	10 ... 0	Cane			
Scotrine	15 ... 0	Cannabis indica	8 ... 0	Cane			
Zanzibar	32 ... 10	Cantharides (Ch.)	19 ... 0	Cane			
Ambergis... (pkgs)	3 ... 0	Cardamoms and					
Anise, star (cs.) ...	55 ... 0	seed	360 ... 43				
Anise oil, star. cs. ...	50 ... 50	Cascara sagrada	695 ... 0				
Araroba	6 ... 0	Cascarilla	13 ... 0				
Areca	89 ... £9	Cashew-nuts	76 ... 0				
Balsam tolu	5 ... 0	Chaulmoogra oil ...	7 ... 0				
Balsam peru	2 ... 1	Chiretta	5 ... 0				
Belladonna-leaves. ...	19 ... 0	Cocaine	5 ... 0				
Belladonna-root ...	4 ... 0	Colocyntha pulp	5 ... 0				
Benzoin—		Croton-seed	24 ... 0				
Palembang	65 ... 0	Cubebs	45 ... *10				
Saigon	1 ... 0	Cuttlefish-bone	30 ... 0				
Siam	13 ... 0	Dragon's-blood	36 ... *7				
Sumatra	19 ... 0	Ergot	7 ... 0				
Buchu	19 ... 0	Gamboge	12 ... 0				
		Guaiacum	8 ... 3				

* Sold privately.

Offered	Sold	Offered	Sold
Guarana	2 ... 0	Sarsaparilla—	
Guinea grains.....	3 ... 0	Grey Jam.....	12 ... 12
Gum acacia	226 ... 34	Lima Jam.	22 ... 22
Gurjun balsam ...	10 ... 0	Native Jam.....	3 ... 3
Henna	9 ... 0	Senega	10 ... *5
Honey—		Senna and pods—	
Californian	160 ... 0	Alex.	36 ... 1
Cuban.....	104 ... 104	Tinnevely	44 ... 22
Jamaica.....	20 ... 20	Sticklae.....	30 ... 0
New Zealand ...	58 ... 0	Tamarinds... (E.I.)	10 ... 0
Ipecacuanha—		Tonka beans	22 ... 0
Cartagena.....	25 ... 3	Tragacanth	27 ... 1
Jalap	19 ... 0	Turmeric.....	1,027 ... 0
Kamala	2 ... 0	Wax (bees')—	
Kola	26 ... 26	Abyssinian	37 ... 0
Myrrh	65 ... 3	Chinese	5 ... 0
Olibanum	65 ... 0	Cuban	1 ... 1
Orange-peel	52 ... 1	East African.....	458 ... 27
Orris (Mog.)	36 ... 16	East Indian	47 ... 6
Purce.....	6 ... 0	Grenada.....	1 ... 1
Rhapontica	64 ... 0	Jamaica.....	23 ... 14
Rhubarb—		Japanese	15 ... 0
Chinese	101 ... 32	Mozambique.....	4 ... 0
Sandarac	10 ... 0	Nyasaland.....	17 ... *17
Sandalwood	79 ... 0	West Indian.....	2 ... 1
Scammony-root ...	323 ... 0	Zedoary-root	24 ... 0

ALOES.—Cape were flat, only four cases selling at 31s. 6d. subject for ordinary seconds. Good bright hard firsts were held at 34s. Ten cases of Zanzibar sold without reserve at from 40s. to 50s. per cwt. for off quality, very skinny mixed, and coarse. For fine genuine hepatic Zanzibar aloes in small monkey-skins the value is 70s. per cwt. Privately, Curaçao in cases remain scarce and wanted. Hard Socotrine in kegs is on offer at 42s. 6d.

ANISE OIL (STAR).—A lot of 50 cases (ship brand), congealing-point 15.2, sold on account of the Marshal of the Admiralty (naval prize) at 3s. 7d. per lb., being cheap; to arrive 3s. 7½d. c.i.f. is quoted.

ARECA.—A new lot of 89 bags Ceylon sold cheaply, including good bold sound clean at 35s., fair ditto 30s., and slightly wormy 27s. 6d. per cwt.

BALSAM PERU.—A single case of genuine realised 13s. 6d. per lb. net.

BELLADONNA-ROOT.—Four bales (no test) were held at 350s., and 19 bales *leaves* (0.31 per cent. and 0.48 per cent.) at 350s., both net and gross for net; slightly less would probably buy.

BENZON.—Momentarily scarce, but arrivals of Sumatra are reported, which may not be available for several weeks. Consequently holders ask very high prices, 29 cases offering at from 87. 10s. to 87. 15s. for ordinary seconds, with small almonds; 40 cases Palembang were taken out at from 50s. to 60s. for low barky to fair.

BUCHU.—Nothing sold; good clean green are now obtainable at 5s.; slightly stalky offer at 4s. 10d.

CARDAMOMS were flat, fair prices being obtained for bold, but other qualities were cheaper. Ceylon-Mysore, good bold pale, sold at 5s. 5d.; medium to bold ditto, 4s. 10d.; bold, few split, 4s. 3d.; small and medium pale, 3s. 10d. to 4s. 1d.; small pale, 3s. 3d. to 3s. 6d.; tiny, 2s. 6d.; brown and split, 2s.; seed, part split, 2s. 10d.; small greenish Indian, 2s. per lb.

CASCARILLA.—The market is bare of quill, and the value of siftings is from 60s. to 65s.

DRAGON'S-BLOOD.—Seven cases of Singapore reboiled, native-picked, with a small proportion of dull, have been sold privately at probably 207. per cwt. Native-pickings from the reboiled were limited at 77. 15s., and for two cases of slightly seedy lump of brilliant colour 127. was paid, being dearer. Ordinary slabs were held at 67.

GUAIACUM.—Two packages fair glassy block sold at 1s. to 1s. 1d., and common drossy at 3d.

HONEY was in good general demand at higher prices all round; Jamaica was scarce, only 19 packages being offered, and sold at from 37s. to 37s. 6d. for nice pale set in barrels, and for pasty brown set 30s. 6d. was paid; 104 packages Cuban sold with very fair competition, including nice white set and setting at 40s. to 41s., fair to good pale set 33s. to 36s. 6d., good amber liquid 39s. 6d., fair ditto 34s. to 36s., common dark to fair 30s. to 33s.; a bid of 32s. 6d. is to be submitted for Californian. Privately, a good business has recently been done, and higher prices are asked from Liverpool for the better qualities of Californian. Jamaica is offered at 32s. 6d.

IPECACUANHA.—Cartagena was in plentiful supply, small sales of leanish being made at 9s. per lb., being 6d. lower than the prices asked privately. Fair Matto Grosso is obtainable at 15s., but less would be accepted for quantity.

KOLA.—A lot of 21 bags Java sold at from 2d. to 3½d. for very small to small partly dark quarters and halves to fair bright; four bags fair dried West Indian halves realised 3½d. to 3¾d., and a bag of good bright 5d.

MYRRH.—Three bags bold pea-size drop sold at 45s. per cwt.

ORANGE-PEEL.—A single case of fair Tripoli strip sold at 1s. 6d.

ORRIS.—Dull lean sea-damaged Mogador (16 bags) sold at 20s. subject.

RHUBARB sold more freely at steady prices, including a case of small round and trimming Canton root, with three-quarters fair pinky fracture, at 3s. 6d. subject, and two cases Canton pickings at 2s. 3d. for half very fair colour and half grey to dark. Further sales included 10 cases medium to bold flat High-dried with three quarters good pinky fracture at 1s. 4d., and about 21 cases rough round horny High-dried at from 9d. to 10d., the higher price being for good pinky break of its kind.

SARSAPARILLA.—Grey Jamaica realised firm prices to 1d. advance, 12 bales selling at from 2s. to 2s. 1d. per lb. for fair fibrous. Lima-Jamaica (of which 22 bales offered, and sold) was steady at from 1s. 6d. (one lot) to 1s. 8d. (the bulk going at 1s. 7d.). Native Jamaica was rather dearer, two bales realising 1s. 1d. for reddish and yellow mixed, and 10d. for a bale of ordinary pale yellow. Several parcels had not arrived in time.

SENNA.—The chief sale was 18 bales of common small yellowish Tinnevely leaf, which sold at from 5½d. to 6d.; last year this quality sold at from 1¼d. to 1½d.; two bales of fair greenish from another catalogue sold at 6¼d. A bale of Mecca pods sold at 2½d., and this price was also asked for Tinnevely pods.

TRAGACANTH.—A single bag (31 lb.) of good seconds sold at 457. per cwt.

WAX, BEES.—Steady, but quiet; 19 packages Jamaica realised 87. 5s. for fair red and brown mixed, and 87. for ordinary brown; two cases West Indian sold at 77. 10s. to 77. 12s. 6d. for fair pale to good yellow, and fair brown Cuban (one case) sold at 67. 12s. 6d. Seven bags good pale Mozambique rolls sold at 77. 2s. 6d., and 10 cases East African went at 67. 17s. 6d.; seven cases Bombay realised 67. for dull grey and 67. 15s. for ordinary yellow.

Arrivals of Chemicals and Drugs.

During the period April 8 to 14 inclusive the following produce from the places mentioned in parentheses has arrived at the English ports stated. Goods in transit are not included. The figures denote packages where not specifically described:

To London.		
Acetic acid (Gothenburg) djhns.	584, (Rotterdam) cks. 8, pkgs. 94	Cloves (Colombo) cs. 10, (Marseilles) cs. 10
Acetic anhyd. (Treport) cbs. 8	Acetone (Philadelphia) dms. 652	Coconut oil (Colombo) pps. 287, pns. 73, hlds. 88, (Marseilles) brls. 877, cs. 275, (Singapore) cs. 2,250, (Cochin) pps. 103, cs. 1,529
Agar-agar (Japan) bls. 259	Albumen (Hong-Kong) 43	Cod-liver oil (Rotterdam) cks. 27, cs. 50
Alcohol (Philadelphia) dms. 188	Annatto-seed (Madras) bgs. 35	Cod oil (Japan) brls. 1,000
Antimony cr. (Hankow) cs. 2,000	Antimony ore (Singapore) 2,060	Cream of tartar (Marseilles) cks. 160
Antimony ref. (Japan) cs. 1,000	Barium binoxide (Treport) cks. 20	Cumin-seed (Marseilles) bgs. 19
Benzoin (Marseilles) cs. 21, (Singapore) cs. 181, (Penang) 32	Boric acid (Dieppe) cks. 19	Drugs (St. John) pkgs. 39, (Philadelphia) pkgs. 17, (New York) cs. 38
Buchu (Cape Town) bls. 20	Camphor (Japan) cs. 940	Essential oils (Marseilles) cs. 115, cks. 8, (Palermo) cs. 52, (Amsterdam) cs. 16
Camphor oil (Japan) cs. 50, (Havre) cs. 20	Cannabis ind. (Calcutta) 10	Fig syrup (Philadelphia) cs. 3,000
Caraway oil (Rotterdam) cs. 4	Carbon tetrachloride (Marseilles) cks. 40	Fruit essences (Rotterdam) cs. 40
Cardamoms (Colombo) pkgs. 61, seeds cs. 21, (Marseilles) cs. 94	Cassia bark (Japan) 140	Galls (Hankow) cs. 207, (Bussorah) bgs. 19
Cassia lignea (Hong-Kong) bgs. 300, cs. 500	Castor oil (Calcutta) dms. 25, (Marseilles) brls. 97, pkgs. 125	Gentian (Marseilles) bls. 118
Castor oil (Calcutta) dms. 25, (Marseilles) brls. 97, pkgs. 125	Chemical products (Paris) pkgs. 15, (Bushire) cs. 58, (Havre) cs. 35	Ginger (Japan) 168
Cinchona (Tuticorin) 90	Cinnamon (Colombo) bls. 431, chips pkgs. 453	Gum copal (Rotterdam) pkgs. 203, (Hong-Kong) 50, (Singapore) 274
Citric acid (Palermo) cks. 190, (Marseilles) 30		Gum damar (Singapore) 227
		Gum kauri (Auckland) bgs. 1,133, cs. 196
		Gum tragacanth (Persian Gulf) cs. 141, bgs. 1,162
		Gum yacca (Adelaide) bgs. 360
		Gums, undescribed (Persian Gulf) cs. 132, bgs. 894
		Herbs (Genoa) bls. 24
		Honey (Halifax) cks. 35, ½-cks. 70, (San Francisco) cs. 378
		Indigo (Madras) cs. 103
		Insect-powder (Japan) cs. 10, (Marseilles) cs. 26

Iodine (Japan) cs. 10
 Juniper oil (Rotterdam) cs. 27
 Kola (Halifax) bgs. 5
 Linseed (Calcutta) bgs. 27,319,
 (Bushire) 145, (Hong-Kong)
 bgs. 1,120, (R. Plate) 6,261
 Licorice-juice (Naples) cs. 60
 Licorice-powder (Marseilles)
 bgs. 20
 Licorice-root (Persia) bgs. 198
 Manna (Palmero) cs. 6
 Menthol and mint oil (Japan)
 cs. 320
 Milk-sugar (Genoa) cs. 100
 Mineral waters (Marseilles) cs.
 4,106, (Treport) cs. 500
 Mint oil (Japan) cs. 45
 Mustard oil (Calcutta) dms. 25
 Nut oil (Bordeaux) cks. 118,
 (Rotterdam) brls. 1,500, (Mar-
 seilles) 150
 Nux vomica (Calcutta) pockets
 1,000, (Marseilles) bgs. 213,
 (Vizagapatam) bls. 565
 Olive oil (Malaga) brls. 85,
 (Boulogne) cks. 17, (Tarrago-
 na) brls. 42, (Marseilles)
 cks. 133, (Genoa) cs. 29
 Opium (Marseilles) cs. 62, (Per-
 sian Gulf ports) cs. 687
 Orange-peel (Malaga) bgs. 56
 Perfumery (Boulogne) cs. 97
 Pimento (Halifax) bgs. 1,276
 Potash chlorate (Genoa) brls.
 200, (Treport) cks. 30
 Potash iodide (Japan) cs. 30
 Potash prussiate (Genoa) cks. 53
 Potash salts (Gothenburg) cs.
 20, (Rotterdam) cks. 12
 Quinine (Amsterdam) cs. 11
 Rape-seed oil (Japan) cs. 87,000,
 brls. 2,200
 Roots, barks, herbs, leaves, etc.
 (Rotterdam) bls. 58, (Mar-
 seilles) bls. 138, pkgs. 49,
 seeds bgs. 217
 Saccharin (Paris) cs. 5
 Saffron (Marseilles) cs. 4,
 (Valencia) cs. 2
 Saltpetre (Calcutta) bgs. 3,236
 Seedling (Calcutta) pkgs. 350
 Shellac (Calcutta) cs. 2,555,
 button cs. 406, garnet 100
 Soya-bean oil (Darien) cs. 5,000,
 (Japan) 300
 Tartar (Marseilles) cks. 193,
 (Tarragona) brls. 34,
 (Palermo) bgs. 100
 Tartaric acid (Marseilles) pkgs.
 78
 Turmeric (Madras) bgs. 285
 Turpentine (Bordeaux) cks. 100,
 (Lisbon) 46
 Vanilla (Marseilles) cs. 101
 Wax, bees' (Calcutta) cs. 20,
 (Marseilles) pkgs. 342
 Wax, vegetable (Japan) cs. 525
 Wood oil (Hankow) 56
 Zinc oxide (Rotterdam) cks. 630
 To *Liverpool*.
 Acetic acid (New York) brls. 97
 Alum (Boston) brls. 145
 Ammon. anhyd. (Baltimore) cyl.
 200
 Ammon. nit. (Christiania) cks.
 162
 Aniline colours (Nantes) pkgs.
 22
 Antimony (Halifax) brls. 479
 "Balsam" (Trinidad) cs. 16
 Camphor ref. (New York) cs. 42
 Castor oil (Marseilles) cks. 41
 Chemical products (Marseilles)
 cks. 87
 Cinchona (Mollendo) bls. 38
 Coconut oil (Sydney) cks. 100,
 (Marseilles) cks. 738
 Cream of tartar (Marseilles)
 cks. 10
 Dental cream (New York) cs.
 135
 Dextrin (Boston) cs. 80
 Drugs (N. York) cs. 1,139,
 medicines pkgs. 238, (Havre)
 cs. 33
 Essential oils (Malaga) dms. 3
 Glycerin (Marseilles) dms. 564
 Gum acacia (Bombay) cs. 120
 Gums, undescribed (W.C.
 Africa) brls. 97
 Herbs (Havre) bls. 25
 Honey (Curacao) brls. 24, (N.
 York) brls. 27, (Frisco) cs. 50
 Kola (Trinidad) 4
 Lime acetate (Boston) bgs. 4,074
 Lime-juice (Vancouver) brls. 49
 Linseed (R. Plate) bgs. 58,449
 Listerine (N. York) cs. 700
 Lithopone (Rotterdam) brls. 40
 Mineral waters (Marseilles)
 cts. 860
 Nut oil (Marseilles) cks. 415
 Olive oil (Marseilles) cs. 7,265,
 (Bordeaux) cs. 87, (Malaga)
 brls. 147
 Opium (Patras) cs. 13
 Oxalic acid (Fredrikstad) cks.
 40
 Palm kernels (W.C. Africa) bgs.
 35,530, tons 628
 Palm oil (W.C. Africa) cks.
 1,673
 Peptone, etc. (New York) cs. 43
 Perfumery (Havre) cs. 70
 Pimento (Halifax) 200
 Potash caustic (N. York) dms.
 42
 Quillaia (Valparaiso) bls. 144
 Roots, barks, etc. (N. York)
 bls. 25
 Sarsaparilla (Colon) 10
 Spices (Trinidad) brls. 300
 Tartaric acid (Marseilles) cks.
 161
 Thorium nitrate (Philadelphia)
 cs. 15
 Vanilla (Bordeaux) cs. 4
 Wax, bees' (Marseilles) cs. 11,
 (Chile) pkgs. 76, (Rotterdam)
 bls. 18, cs. 44
 Wax, carnauba (Bahia) bgs. 17,
 (Pernambuco) 445
 Wax, vegetable (N. York) 52
 Zinc oxide (Rotterdam) 125,
 (N. York) 1,000
 To *Manchester*.
 Antimony salts (Rouen) cks. 16
 Coconut oil (Marseilles) brls. 307
 Cream of tartar (Marseilles)
 cks. 24
 Dextrin (Boston) bgs. 880
 Gentian (Marseilles) 5
 Lime acetate (Gothenburg) bgs.
 140
 Lithopone (Rotterdam) cks. 200
 Medicines (Boston) pkgs. 4,665
 Nut oil (Rotterdam) cks. 90
 Olive oil (Marseilles) brls. 122,
 (Leghorn) pkgs. 185
 Potashes (St. John) brls. 15
 Soda ash (St. John) brls. 200
 Soda bicarbonate (Boston) cks.
 70
 Soya-bean oil (Darien) cs. 40,000
 Tartar emetic (Rouen) cks. 7
 Tartaric acid (Marseilles) cks.
 122
 Turpentine (Savannah), brls.
 750

(From March 30 to April 14.)

To *Bristol*.—Aniseed (Marseilles) bgs. 45; cream of tartar (N. York) kgs. 60, (Marseilles) cks. 61; glucose (N. York) 180; lime-juice (Jamaica) pkgs. 43; linseed (Rosario) cwt. 20,000; mineral-waters (Marseilles) cs. 750; olive oil (Italy) 3 cts. 365, cs. 75, (Marseilles) cs. 650; potashes (St. John, N.B.) brls. 15; wax, bees' (Marseilles) 4. To *Folkestone*.—Chemical products (Dieppe) pkgs. 84; perfumery (Boulogne) pkgs. 65, (Dieppe) 10; saccharin (Dieppe) pkgs. 12. To *Goole*.—Olive oil (Seville) cks. 220. To *Grimsby*.—Chemical prod. (Dieppe) cs. 35; tannic acid (Dieppe) brls. 11. To *Hull*.—Borax (N. York) brls. 302; borio acid (N. York) kgs. 330, (Leghorn) 50; carbon black (N. York) cs. 175; castor-seed (Bombay) bgs. 36,648; chemical products (N. York) brls. 420, cks. 36, (Rotterdam) cks. 113, (Dunkirk) cks. 55; chloroform (N. York) cs. 50; ood-liver oil (Aalesund) 220; cream of tartar (Genoa) cks. 41; drugs (Boston) cs. 42, (Rotterdam) bls. 10; formic acid (Rotterdam) blns. 101, cks. 10; glucose (N. York) brls. 480; gums, undescribed (Amsterdam) cs. 28, bgs. 31; iodine (N. York) brls. 6;

linseed (R. Plate) bgs. 127,215; mercury (Leghorn) botts. 200; olive oil (Patras) brls. 218, (Leghorn) cs. 100; oxalic acid (Copenhagen) cks. 10; potash salts (N. York) dms. 54; potash caustic (Gothenburg) dms. 40; rape-seed (Karachi) bgs. 22,882; salicylic acid (N. York) brls. 10; soda hypo. (N. York) 60; soda sulphate (N. York) brls. 60; soya-bean oil (Darien) cs. 15,000; soya beans (Darien) bgs. 15,360; tartar (Naples) cks. 18; zinc oxide (Rotterdam) brls. 400. To *Southampton*.—Thorium nitrate (Cherbourg) cs. 30

London Drug Statistics.

The deliveries of crude drugs from the London warehouses during March were very good. They included 167 packages aloes, 12 tons cascara sagrada, 1,496 packages beeswax, 457 packages Japanese vegetable wax, 93,000 oz. quinine, 937 packages camphor, 428 packages cardamoms, 85 bags calumba, 23 cases dragon's-blood, 4,363 packages eopal, 1,936 arabic, 1,019 damar, 65 tons kauri, 224 cases benzoin, 24 cases gamboge, 622 packages tragacanth, 72 packages olibanum, 20 packages myrrh, 51 packages ipecacuanha, 28 bales jalap, 50 cases rhubarb, 2 bales sarsaparilla, 165 bales senna, 3,957 packages shellac, 34 tons turmeric, and many drugs of lesser importance. Fair arrivals of drugs are taking place at the warehouses; they include 80 bales of grey Jamaica and Lime-Jamaica sarsaparilla and 25 bales Mexican; also 115 bales Matto Grosso ipecacuanha and 40 bales East Indian; 26 cases dragon's-blood, and about 200 cases rhubarb. Among the stocks at March 31 were 112 tons cascara sagrada, against 249 tons in March last year; 922 packages aloes, against 1,129; 4,044 packages cinchona, against 3,095; 1,206 packages camphor, against 1,018; 1,797 packages cardamoms, against 590; 561 calumba, against 711; 30 cases dragon's-blood, against 84; 1,096 packages asafetida, against 1,518; 716 benzoin, against 570; 78 gamboge, against 53, and 73 packages guaiacum, against 61; 38 mastich, against 13; the olibanum stocks have increased from 848 to 1,335, and those of sandarac from 274 to 850; tragacanth stands at 7,162, against 9,186; jalap stock is 158, against 140; and the stock of Chinese rhubarb is 498, against 656; while there are also 2,454 packages Chinese raphanica in stock. Senna stock at 320 bales is the lowest for a series of years; it was 933 last year.

Continental Drug and Chemical Markets.

The following notes chiefly refer to the Hamburg and Berlin markets under date up to March 27:

AGAR-AGAR.—With an active demand and small stocks, prices have again advanced, fair strip having sold at up to m.525.

AMMON. CHLOR.—Makers are unable to cope with the demand, and much delay in delivery has ensued; 98 to 99 per cent. technical is about m.58 per 100 kilos.

BALSAMS.—*Copaiba* is in active demand, and the cheap lots may soon be exhausted. *Peru*, instead of advancing as was expected, has declined. For original import m.32.50 per kilo. is asked.

CONDURANGO is neglected, although cheaper.

CREAM OF TARTAR has advanced owing to much increased demand; from m.270 to m.280 is quoted for 99 to 100 per cent. for prompt delivery.

GUINEA GRAINS are cheaper at m.165 per 100 kilos.

IPECACUANHA is quiet and unchanged, with slight demand.

LYCOPodium has suddenly advanced to m.700 per 100 kilos. for cases and m.685 in barrels, which has been paid.

MILK-SUGAR has advanced by m.10 per kilo.

OILS (ESSENTIAL).—*Cedar-wood* is still obtainable at m.250 per 100 kilos. *Eucalyptus* has been sold at m.4.30 per kilo. for 70-per-cent. *Fir-tree* (Siberian) is offered at m.3 per kilo. *Peppermint oil* is offered at m.12.25 per kilo.; American is unchanged; H.G.H. is m.16, Todd's cryst. white m.16.50, and Wayne County at m.13 to m.13.50 per lb. *Turpentine oil* is obtainable at m.235 per 200 kilos.

OILS (FIXED) AND FATS.—*Castor* is more in demand, which has caused prices to advance; medicinal is m.230 to m.235; first-pressing at from m.210 to m.215, and second-pressing m.190 to m.195. *Coconut* is m.175. Refined *Cottonseed* is only obtainable in small quantities at m.150. *Earthnut* is m.155. *Linseed* still advances. German is m.136, Dutch m.136, free Hamburg. *Fatty Acids of Linseed Oil* find a ready sale at m.133. *Maize* is wanting. *Olive* is very firm. *Lavos Palm* is m.160. *Palm-kernel* is m.175. Crude *Rape-seed* is m.150, and refined m.152. *Soya* is very firm, and has been sold at m.160; further offers are lacking. *Spermaceti* business is very active; first quality refined has been sold at m.225. *Whale oil* is steadily advancing; No. 0 is offering at m.150, medicinal at m.200 per 100 kilos. in barrels. *Hankow Wood* is firmer at m.125.

SALICYLATES have advanced by m.30 per 100 kilos. Conventional prices are m.270 to m.310 for salicylic acid and m.350 to m.370 for sodium salicylate.



Memoranda for Correspondents.

- Communications should be accompanied by the names and addresses of the writers, otherwise they cannot be dealt with. Queries by subscribers on dispensing, legal, and miscellaneous subjects connected with the business are replied to in these columns if they are considered to be of general interest. Correspondents are requested to write each query on a separate piece of paper. Every endeavour is made to reply to queries without delay, but insertion of the replies in "the next issue" cannot be guaranteed, nor, as a rule, can they be sent by post. Letters submitted for publication (if suitable) should be written on one side of the paper only. Their publication in "The Chemist and Druggist" does not imply Editorial agreement with the opinions expressed, even when the writers use a "nom de plume." Complete and systematic indexes of the "C. & D." are presented with the last issues in June and December each year. Every subject dealt with week by week is included, and correspondents are advised to refer to these and the "C. & D. Diary" before asking the Editor for information, so as to save time.

Epithema.

SIR,—I do not quite understand what "Xrayser II." means when he says my authorities have misled me a little with reference to the meaning of the word epithem in the seventeenth century. Does he mean that the authors I quoted are not representative of those times, or have I put a wrong interpretation or misquoted what they say, or is he assuming I am only quoting at second-hand? If the first is his meaning, may I ask him to submit better authorities? If the second, he should have shown in what respect I have gone astray. If the third, well, I can only say this is not a habit of mine, and, further, such small contribution as I have made is from my own study.

"Xrayser II." refers me to the O.E.D., at which I am a little surprised, because "Xrayser II." knows quite well that this little matter is not simply a philological one. It is a question of technical nomenclature, and can only be settled by reference to technical works written at the time under consideration. The fact that the O.E.D. quotation is from Kersey puts it out of court, for this author was a dictionary-maker without any pretensions to special medical knowledge. His work was in great part based upon E. Phillips' "New World of English Words." "Xrayser II." is rather unfortunate in referring me to the epithem in Rennie's "New Supplement," which is not typical, as appears from Rennie's own words given a few lines above on the same page: "Epithema. A sort of fomentation of a spirituous and aromatic kind." And Rennie really was a good authority, for he edited the English edition of Jourdan's "Pharmacopée Universelle."

If "Xrayser II." will look up Pemberton's Dispensatory, he will get an idea as to how the two epithems came to be placed under that heading in the P.L. 1746. The *epithema vesicatorium* had previously been among the ointments, which seemed to be improper. The revisers evidently were not prepared to put it among the plasters, as their successors ultimately did, so they put it into a new official category, perhaps with a view to making history. On the other hand, the *epithema volatile* had previously been a plaster, but the Tolu balsam it had contained caused it to adhere too firmly. The firesome ingredient was eliminated, and, being no longer a plaster, this preparation was dumped into the new class of *epithemata*.

My notes gave quite a fair notion of the epithems of the seventeenth and eighteenth centuries. The temptation is very great to add many more authorities. I must content myself by saying that Quincy's definition is quite a good one, covering as it does the great majority of the recipes published in that period. Why "Xrayser II." should favour the "Dispensatory" over the "Dictionary" I cannot understand, unless it is that it seems to support Dr. McWalter's translation of "poultices" for the twelfth-century word, which demands more space than I fear you will give me. However, Quincy's definition of epithem has been pretty generally followed into the last century, as may be seen by referring to the medical dictionaries of Fox and Bradley (1803), Hooper (sixth edition, 1831), and Mayne (1860). In "Hoblyn" (twelfth edition, 1892) ointments and plasters are expressly excluded from the term.

A final word concerning stupe and Bailey's derivation. This, I think, is worth looking into further, and "Xrayser II." might keep the idea before him in his reading; but he must not rely on his twenty-fourth edition of Bailey's "Dictionary" as representing the whole of the author's work. The only good editions are the folio ones. I quoted from the folio. He cut this book into two parts. One was prepared for the ordinary people and the other for the elect. It was the former that was generally sold. If "Xrayser II." will look up the folio of 1730, and the two other octavo editions of the same year (there were a sixth and a second), he will see what I mean. It is perhaps worth pointing out that it was Bailey's folio "Dictionary" that Dr. Johnson took as the foundation for his celebrated "Dictionary."

Yours faithfully,

Manchester, April 10. WILLIAM KIRKBY.

Trade with Russia.

SIR,—The cessation of imports of chemical and pharmaceutical products into Russia from Germany and Austria, and the difficult position in which many branches of our trade and industry are consequently placed, have raised a number of questions, both as regards the organisation of the manufacture of certain products here in Russia and of their import from other countries, more especially from England. In connection herewith several members of this Chamber, engaged in the chemical-trades, have expressed a desire that a Special Chemical Section of the Chamber should be formed, with the object of looking after the various requirements of this branch of trade and of assisting in its proper regulation. The Chamber has undertaken an examination of the various branches of the chemical industry which hitherto have been in the hands of the Germans, and also of those products the manufacture of which it is proposed to organise in Russia. As it is very desirable that the import of chemical and pharmaceutical products into Russia should be now organised, and that the production in Russia should likewise be established with the help of British capital, we ask your readers and any British firms desirous of exporting these goods to Russia, or to appoint agents here, to apply to the Chemical Section of the Chamber.

Yours faithfully,

4 Gorochovaia, Petrograd. E. I. KAYAN, Secretary.

Registered Chemists and the Medical Preliminary.

SIR,—In view of the many recent Press comments on a possible shortage of medical men in the future, a friend of mine, who holds the Minor qualification, approached the Registrar of the General Medical Council in April and October last with the object of obtaining registration as a medical and dental student. Applicant had passed the College of Preceptors' examination, Junior Honours Section, in nine subjects, and was eighth in the United Kingdom in the list of all candidates. He had also passed the Cambridge Junior Local examination in Honours, with distinction in French. It so happened that he was just in time to pass the Pharmaceutical Society's own Preliminary examination in Latin, arithmetic, and English (before that examination was abolished). The Minor examination was negotiated without difficulty. The Apothecaries' Hall of Ireland was requested to register my friend as a medical student in the first place, but with no result; even the Apothecaries' Assistants' Certificate was refused. The General Medical Council offered no greater consolation: the Minor certificate of the Pharmaceutical Society was not recognised, nor has it any chance of being accepted as evidence of a sound preliminary education expected from aspirants to a medical or dental career. I fear that there is little hope of any change of policy on the part of the General Medical Council in favour of registered chemists while the Pharmaceutical Society persists, with deliberate purpose, in lowering the standard of its own Preliminary requirements to the level of a third-rate Board-school examination.

Yours, etc.,

E. A. (243/42.)

The Government Insurance Dispensing Grant.

SIR,—The Government grant of 60,000*l.* can hardly be regarded as satisfactory. It will only just meet the deficiency in London for 1914. And what of 1915? It is, to say the least, niggardly, especially when the failure of the Drug Fund is attributable to the Government itself. It did not go into the "custom of the trade" to find out what would be a fair price to pay the chemist for his work, but made a slipshod estimate based on the old club practice, and then, after including every chronic in its benefits (?), proceeded to advertise to the country at large that the insured person was to have the best of everything. Then when the doctor carries out these instructions (we must not forget that as a rule he has ordered only what he con-

sidered necessary), and it is found by actual practice that the Drug Fund is not nearly enough, the Government shields itself behind its dishonest discounting clause. It seems to be usual to have a similar clause in most Government contracts. We use the telephone on the same terms. In the one the Government pays as it likes, and in the other charges as it likes, and in both there is no appeal. Mr. Montagu would call these "voluntary" contracts! If the Insurance Act deprived the chemist of half his business, it would still be quite voluntary for him to go on the panel! We went on, and remain on, the panel only in self-defence. There is only one honourable course open to the Government, and that is to examine our Tariff, and, if it is fair and reasonable, to pay our bills in full. If it is then found that the insured patient is getting too good a treatment, let the Government dictate its own terms to the doctors, and not saddle the chemist with the onus of this dirty work.

Yours truly,

493 Seven Sisters' Road, N. J. B. HEWITT.

SIR.—The terms offered by Mr. Montagu afford cold comfort to panel chemists. Chemists voluntarily accepted their position under the Act. I would ask, What was their alternative? Chemists voluntarily accepted the Tariff and the system of payment; but would they have accepted the position or the Tariff if they were not assured from high places that the Fund was ample? The *ex gratia* grant of 60,000*l.* will not pay the London chemists alone 20*s.* in the pound for 1913-14. Bloomsbury Square has again shown its weakness by going to the Government cap in hand, for it is monstrous to victimise chemists when other people are to blame. No assurance was given as to the cruel discounting clause. It is a complete triumph for the Salter party to know that Mr. Montagu should tell the deputation unchallenged that when the Departmental Committee reports on the Tariff it will probably be shown that chemists have suffered no loss whatever. This is a plain hint, and if the Tariff scale is to be brought down to cover the doctors' behaviour the sooner State dispensaries are set up the better, for nothing would wreck the Act sooner. As to the report of the Council-meeting, I am at a loss to know why members congratulated each other: imagine the leaders of any trade union accepting such terms?

The insured person is absolutely at a loss to know why doctors, whose hours of consultation are 7 to 9 P.M., more or less, get 6*s.* 6*d.* per capita, with other special fees, while the chemist, who dispenses and supplies everything, gets only 2*s.*, and has to suffer loss through the discounting clause. There is one weapon left for panel chemists, and that is the political one; when the general election comes attack Stepney, etc.

Yours,

PANEL CHEMIST. (68/39.)

SIR.—On reading the report of the deputation from the Pharmaceutical Society to the Financial Secretary to the Treasury, one becomes conscious of a more hopeful outlook. More than ever it behoves pharmacists to remember that they will get nothing beyond what they fight for. United action is imperative. In the past, in these columns, I have pleaded for such unity as approximates to trades-union action, and the need for such action is more urgent to-day than ever. The urgent need of pharmacy is a strong union, and it might be got if the "Square," on the one hand, would unbend a little, and if, on the other hand, non-members of the Society would exercise more thoughtful patience, more compromise, more perspective vision. Cannot these discordant elements be brought together and an *airenicon* established? So, I say, we must fight. Let us not put too much faith in abstract justice—nothing is won in that way.

Whatever did Mr. Montagu mean by saying that "it must not be assumed that in every case where the bills of a chemist were subject to a discount the chemist would necessarily have suffered loss"? A vague, loose, even meaningless generalisation of that sort is well worthy of the Circumlocution Office. Nearly all panel pharmacists have lost something: some have lost in the most approved manner, and in a way to satisfy even the finicking precision of Mr. Montagu; and any of us may at any time be launched upon a period of real, serious, and far-reaching financial reverse. I wonder what Mr. Montagu means by "loss" when he says that not "in every case" have chemists suffered loss in being discounted? If we are left with a profit upon the drugs used in dispensing, then, I suppose, we should not by the Montagu standard have suffered loss? But such profit has to cover its proportions of (a) working expenses (rent, light, advertising, wages, etc.) and (b) the pharmacist's own emolument. I take it that the latter is invaded by every application of the discounting clause, for the Tariff is so framed as not to give the pharmacist a penny more than suffices to pay him a fair remuneration, therefore every penny taken by a discount

is an imposition. But the chief evil of the discounting clause is that it commits us to we know not what. Our promises (of dispensing services) are met not by promises to pay a certain definite amount for those services, but by a vague promise to pay "something." We are committed to a one-sided contract, popularly known as the "heads I win, tails you lose" contract. Mr. Montagu made the remarkable pronouncement that "it might well be that on consideration of the Report of the Drug Tariff Committee a system of payment to the chemists would be devised which was preferable to the existing system with its provision for discounting." A suggestion significant of much; but my chief object in writing now is to invite your readers to take time by the forelock and see to it that a new system of payment is preferable. Also let us determine that we will not be fobbed off with any "system of payment" we ourselves have not had a hand in "devising." Nobody knows more about matters pertaining to the panel chemist than the panel chemist, so I hope he will be called in to any deliberations which may ensue. I trust your readers will turn over in their minds the various possibilities which underlie any change in the system of payment, of which more anon.

Yours faithfully,

R. CECIL OWEN.

Apothecaries' Assistants and the Chemists' Register.

SIR.—In the greatest spirit of deference I disagree *in toto* with your footnote to "Phenol's" letter. To talk of the absurdity of the claims put forth by experienced assistants of the Society of Apothecaries is to confess to a want of acquaintance with all the aspects of the question. I will not deal with your obvious gibe at the opposite sex, beyond stating that that sex is fairly well represented on the Pharmacy Registers, and will doubtless, in course of time, become proportionately far greater in numbers. Have you, Sir, considered the position created for the "Hall" dispenser in an institution, with a large insured staff, by the terms of the Insurance Act? Is it an absurdity for that dispenser of long experience to claim, by the provisions of a Government Act, the only remedy that will remove the anomalous position of being allowed to dispense for the insured staff, if of over three years' experience as a dispenser, and having this power absolutely nullified by not being able to recover the cost of drugs supplied for the authority that employs him or her? That latter power is confined to persons who are legally only entitled to sell or keep open shop for the sale of the few specific substances known as "poisons," yet the qualified dispenser of all substances for the prototype of the present-day general practitioner—the apothecary—is practically to become extinct, as a result of the exercise of an unscrupulous Parliamentary opportunism. The present-day chemist owes considerably more to the apothecary than he probably cares to admit. His position as a prescriber he owes entirely to the misconception existing in the public mind due to the lack of distinction between the "doctor's shop" and the chemist's; when the former class of shop disappeared, its disappearance was imperceptible to the general public, but the "poison-seller," without the merest semblance of medical training, proceeded to carry on more or less a bastard form of medical practice. The public, even now, are largely under the delusion that the chemist has had some form of medical and surgical training, which of necessity he decidedly lacks. This constitutes an absurdity in reality; the application of the term to a legal and honest endeavour to remedy an injustice is, to all right-thinking individuals, not absurd, but to the highest degree laudable.

I am, Sir, yours faithfully,

F. E. TRAYNER,

Hon. Sec. Association of Certificated Dispensers.

Pharmacists and Commissions.

SIR.—The correspondence in the "Daily Chronicle" on the above subject should be noted by all pharmacists, and "Sergeant-Dispenser, R.A.M.C." is quite right in asking for support in what is a really important agitation. It is a fact which seems inconceivable that in the midst of the greatest war the British authorities alone among the Great Powers refuse to place to the best advantage the services of pharmacists. Qualified dispensers are scrubbing floors; professional floor-scrubbers are dispensing medicines. I immediately followed up Mr. Wren's opening letter on the subject in the "D.C.," but for some reason or other my letter was not published. Perhaps it was too pointed for general consumption. Being unmarried, of military age, and desirous of serving the country in the most useful way possible, I offered my services direct to the War Office, soon after the war started, in the capacity of a pharmacist, volunteering for either Army or Navy work. I also interviewed the chief recruiting officer of the district. The offer was politely acknowledged, and nothing more. The acceptance of it would mean an inconvenience from a

business point of view, but the country needs men, we are told. The Forces have need of specialists in all departments. Doctors go to doctoring, and rank as C.O.s; motor mechanics get 6s. per day; butchers are put to butchering; cooks are put to cooking; clerks get good jobs at clerking; mates on tramp-steamers get lieutenantcies in the R.N.; a trawler of fish is welcomed officially as a trawler of mines. It seems that only the proven and certificated dispenser of medicines is denied the work for which he is specially fitted. This being a matter vitally affecting the national status of pharmacists, may I suggest that the whole of the correspondence might be reproduced in the *C. & D.*?

Yours faithfully,

Baildon, Yorks.

A. ROBINSON (Ph.C.).

[It is neither possible nor necessary to reprint in these pages the correspondence referred to.—EDITOR *C. & D.*]

Minimum Wage for Assistants.

SIR,—It is to be hoped that assistants will read and digest the remark of your correspondent last week, "that the present is the time to insist on a minimum wage." "Xrayer's" remark about chemistry, too, applies equally to pharmacy. Give the workers adequate compensation, and the men who are wanted will be attracted to the profession. It is the larger salary that supplies the Store with a surplus of labour. Here, however, the absence of a scale of wages is a constant source of disagreement, and in many cases of injustice. It is not uncommon to find better men, commercially and pharmaceutically, getting less remuneration than others who are not to be compared with them. It is the cocksure and conceited men, and not the capable and conscientious, who succeed with the Stores. The manager, and not the dispenser, is the *sine qua non*, and it is well for private pharmacy that this is so. Were the status of the dispenser recognised, and his services valued as highly as they deserve to be, the Stores would doubtless soon encroach more seriously upon the purely pharmaceutical domain. Until conditions are altered there is little prospect of more recognition for them from the medical profession. It is an assistants' appeal to private employers that they give better remuneration with adequate time for recreation and social life, and to the Store authorities that they give the pharmacist his proper status.

Yours faithfully,

LUX. (66/9.)

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

Recipe Wanted.

"Can any readers give a formula for a preparation similar to 'Icy Kol' hair-wash by Hauer & Co., Germany? It gives a very cooling and refreshing sensation when applied, contains menthol, and is nicely perfumed."—B. G. (48/7).

Digestive Cheese.

"Can anyone give me a formula for the manufacture of a digestive cheese? It is made of grated cheese and other ingredients, is of the consistence of butter, and is supposed to be more readily digested than ordinary cheese."—L. R. (65/22).

Aquatint on Copper.

"Can anyone with experience of laying aquatint grounds on copper give information as to the preparation of the solution of resin and alcohol which is used for the purpose, and also state how it is applied to the plate?"—Cuprum (57/34).

New Zealand not Grumbling.

Mr. F. Akhurst, Ph.C., Waimate, South Canterbury, New Zealand, writing on February 22, says: "Retail trade here is not so very much worse than usual—the trouble is in the dispensing part of the business. The prices of drugs have advanced, and we cannot 'pass it on' to the customer except in rare cases, thus profits are much less. But we are not grumbling: matters might easily be very much worse."

Legal Queries.

The majority of difficulties in regard to trade law are explained in the legal section of "The Chemist and Druggist Diary," 1915, beginning on page 405.

Perplexed (67/50).—Your queries are too intricate and personal to reply to in these columns. You should consult a local solicitor who is familiar with local house and health regulations.

J. F. (65/3).—The description "Back and Kidney Pills" is not in itself a dutiable title, but it may become so by printed or verbal reference to the action of the pills upon parts of the human body. For example, if the seller states that they are good for pain in the back, the pills must be stamped. In the case referred to that might have been done verbally in addressing the public, thus constituting public notice of the virtues of the pills.

Lux (67/25).—It is not necessary in advertising one's own medicinal preparations which are known, admitted, and approved remedies, to give the reference numbers in the advertisement. References are only necessary on the labels. See *C. & D. Diary*, p. 419, under "Exemptions," and note that if you advertise known, admitted, and approved remedies as "specialities" each of them becomes liable to medicine stamp-duty notwithstanding the disclosure of their composition.

Ashton (67/29) in July last recovered judgment against a customer for about 5*l.* The customer has obtained a commission in the Army, and is still in England. How is the money recoverable? [As the amount due is under 30*l.*, and the customer is a soldier, "Ashton" cannot compel his attendance in court or have him committed to prison for failing to comply with the judgment; but "Ashton" may, after due notice in writing to the officer, and with the leave of the Court, issue execution against the customer's property, other than his pay and equipment, if he has any.]

A. L. D. (65/29).—While it is not illegal for any person without optical qualifications to use the description "Eye-sight and Spectacle Specialist," if any customer suffers maltreatment at his hands the description may be good ground for taking action against him. "Specialist" in medical and surgical treatment means, in the common acceptance of the term, a person qualified according to law in the practice who has by exceptional experience become better versed in the department which he professes than are general medical practitioners. Therefore a person who has no legal or recognised qualification in regard to treatment of the eyesight, and is not specially experienced in the subject, may be guilty of false pretence by describing himself as a specialist in it.

Miscellaneous Inquiries.

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas of them. When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how.

We do not as a rule repeat information which has been given in this section during the past twelve months, but give the reference to the issues in which the information may be found. If querists cannot refer to these they may obtain the numbers from the "C. & D." Office at the published price, usually 6*d.*

Phosphate (45/52).—We expect that the publication of the "Encyclopédie de Science Chimique" will be renewed after the war. As you are aware, the town of publication is at present in the hands of the Germans, who have destroyed most of it.

Iridin (60/51).—You miss a material point in your query—namely, the profits of the business of which you are a manager. We note that you are not qualified, therefore that you do not furnish your employer with the legal protection requisite for normal salary; but anything between 100*l.* and 120*l.* a year would be fair remuneration.

R. G. (65/46).—DEVONSHIRE OILS for cattle:

Spirit of turpentine	...	...	3x.
Camphor	...	...	3ss.

Dissolve, and add—

Solution of ammonia	...	...	3j.
Tincture of opium	...	...	3ss.

Put into a wine-bottle and fill up with the following mixture:

Soft-soap	...	...	1b. j.
Boiling water	...	...	cong. j.
Armenian bole	...	...	3iss.

Mix. Label "Shake the bottle."

S. C. F. (47/31).—SOFTENING DRIED SKINS OF ANIMALS.—Sal ammoniac is the best softening-agent for the purpose. It is rubbed in as a moist powder, and allowed to remain until the action is complete. The skins should afterwards be well curried with grease to keep them from hardening again.

J. R. (61/57).—MANUFACTURE OF PHARMACEUTICAL PREPARATIONS.—This is dealt with in works on pharmacy, such as Lucas's "Pharmacy" (Churchill, 12s. 6d.), Caspari's "Treatise on Pharmacy" (Kimpton, 21s.), and Remington's "Practice of Pharmacy" (Lippincott, 21s.). The matter has also been dealt with exhaustively in treatises in the *C. & D. Diary* for 1898. None of these publications can replace the practical experience which is necessary before the manufacture on a large scale can be undertaken successfully. To obtain the experience required it is necessary to spend some years in the laboratory of a wholesale house.

Tank (59/12).—We do not think that the formulæ for the developing-powders and fixing-salt to which you refer have ever been published.

Gentian (26/5).—(1) DANDRUFF ON CHILD'S HEAD.—The head should be washed twice a week with warm soap and water, and at the same time the hair-brush and comb should be cleansed. As a dressing for the hair, employ a lotion containing 1 per cent. of salicylic acid (*C. & D.*, July 25, 1914, p. 143) or a resorcin-and-quinine lotion (*C. & D.*, March 20, p. 60). (2) There has been no change in the extent of the "rural area" as given in the Regulations (see *C. & D. Diary*, p. 206). (3) **ITCH-OINTMENT.**—There is no objection to the combination of powdered hellebore and sulphur in an itch-ointment. Such an ointment was official in P.L. 1851, under the name *Ung. sulphuris co.*:

Sulphur	...	...	5iv.
Powdered white hellebore	...	...	5x.
Potassium nitrate	...	...	5ij.
Soft soap	...	...	5iv.
Lard	...	...	lb. j.

Mix together.

Black (40/42).—DIABETES IN DOG.—Diabetes in a dog soon becomes chronic, and sooner or later ends fatally. The dog's life can be prolonged and temporary relief given by special feeding, nursing, and medicines. Withdraw from the diet all articles containing starch, and give bran or gluten bread, raw flesh and flesh-juice, fish either raw or cooked, fresh or cured, almond-bread and milk in the form of sour milk or buttermilk. The medicines indicated are mild laxatives with small doses of opium, strychnine, cod-liver oil, and alkalies, such as potassium citrate or bicarbonate. If there are symptoms of gastro-intestinal catarrh give liq. potassæ with a bitter, such as tr. nucis vom. or tr. gentianæ.

A. W. (59/51).—CHEMICAL-TESTS FOR COTTON AND LINEN.—A note on the chemical-tests for distinguishing cotton and linen fibres was given in the *C. & D.*, August 3, 1912, p. 93. It is too long to repeat.

W. G. (48/67).—NON-STAINING IODINE-OINTMENT:

Iodine	...	...	...	3j.
Soft paraffin	...	...	...	3xix.

Powder the iodine, melt the paraffin by heat, add the iodine, and continue to heat the mixture, stirring until the iodine is combined. Remove the heat, and stir the preparation until it congeals.

J. H. R. (British Columbia) (53/64).—CRESOL SOLUTION.—A large number of disinfecting solutions are sold in this country under the name of lysol, the patent for which has expired. The patent-specification, however, is very wide in scope, and this may account for differences in the various products. It is understood that a good lysol should contain 50 per cent. of cresols and be free from caustic alkali. Liq. cresolis eo., U.S.P., liq. crescli saponatus, Ph.G., and liq. cresol. saponatus, B.P., are formulæ for lysol more or less resembling the product sold by the owners of the patent, but each of these has defects. The following modification of the German Pharmacopœia formula yields a good lysol:

Cresol	...	...	...	50.00
Linseed oil	...	...	...	18.00
Potassium hydroxide	...	...	...	4.25
Alcohol (95-per-cent.)	...	...	...	2.00
Glycerin	...	...	...	6.00
Distilled water to make	...	...	...	100.00

All the ingredients are by weight. Dissolve the potash in 25 of water heat to 70° C., and mix well with the linseed oil previously heated to the same temperature. The alcohol is next added, and the heat continued without stirring, until a few drops added to water dissolves without the separation of oil. The glycerin and cresol are then added, and the weight of the product adjusted.

Curious (65/14).—The pink colour which developed in the bleaching-liquid was probably due to iron or manganese in the chlorinated lime.

Nix (48/70).—BEEF-AND-MALT WINE:

Extract of meat	...	...	5iv.
Extract of malt	...	...	5viij.
Port wine	...	...	cong. j.

Rub down the extracts with a pint of the wine and add to the rest. Shake, set aside for fourteen days, decant, and filter the sediment.

G. S. W. (60/29).—DRUG-GROWING.—There is no modern book published on drug-growing so far as we are aware. The subject was dealt with in the *C. & D. Diary*, 1908, but chiefly from the point of view of medicinal plants suitable for growing in the United Kingdom. A good article on practical lines, by Mr. W. A. Whatmough, appeared in the "Journal of the Board of Agriculture" for September 1914, and Leaflet No. 238, founded on this, has since been issued by the Board of Agriculture and Fisheries—this can be obtained gratis on application to the Board, Whitehall Place, London, S.W. The special conditions of climate in your country necessitate consultation with the Agricultural or Botanical Department of the Colony. It is possible that useful information is available as the result of experimental work in botanical gardens in the district.

Optimus (54/56).—BLUE COLOUR FOR CORN-CURE.—Indigo carmine or methyl violet would probably answer the purpose best. It is possible that the fading which was noticed when methylene blue was employed was not entirely due to light—chemical action may have contributed to the effect.

J. F. D. (57/52).—WASTE STEAM does not yield a distillate sufficiently pure for use in pharmacy as distilled water. The wholesale drug-houses employ special plant for preparing distilled water; in some cases it is silver-plated, with the intention of preventing the possibility of metallic contamination.

A. P. B. (50/69).—(1) LECTURES BY CHEMISTS.—We have from time to time given outlines of lectures suitable for delivering by chemists to a popular audience—e.g., *C. & D.*, February 15, 1908, p. 279 (on "Matter"); February 22, p. 313 (on "Water"); February 29, p. 349 ("Some Interesting Drugs"); March 7, p. 385 ("The Breakfast-table"). As a source of material for chemical lectures, we know of no more suitable book than Martin's "Triumphs and Wonders of Modern Chemistry" (Low & Co., 7s. 6d.). (2) **WOOD-STAIN.**—We are not quite clear as to the colour you require under the description "ash," but possibly a diluted oak-stain would answer the purpose. (See *C. & D.*, April 3, p. 56.)

Phynn (53/23).—GREEN COLOUR FOR OINTMENT.—In place of chlorophyll you may use the aniline colour known as "light green S. F. yellowish." It is soluble in water and alcohol, and would best be added to the ointment in solution.

G. W. (52/5).—(1) FRENCH MUSTARD.—See *C. & D.*, November 23, 1914, p. 72. (2) **WORM-POWDERS.**—See *C. & D.*, February 6, 1915, p. 56.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," April 15, 1865.

The Bills before Parliament.

We are delighted with the result of the recent debate in the House of Commons on the Bills for regulating the qualifications of Chemists and Druggists. We do not approve of hasty legislation, and do not believe that any Bill affecting trade can be safely enacted until it has been subjected to a thorough examination by a select committee. We do not suppose that the Bill framed by the committee will satisfy the Council of the Pharmaceutical Society. The demands of this body are most exorbitant. According to Sir Fitzroy Kelly's Bill, all chemists and druggists now in business must be registered by the Society; all future chemists and druggists must be examined by the Society; and all fees paid for registration and examination are to be used for the purposes of the Society. In return, the chemists and druggists are to receive a title inferior to that of unexamined members of the Society. They are not to be exempted from jury service, they are not to be allowed to vote at elections of officers of the Society; in fine, they must be content to follow the example of good little boys, who are "seen but not heard." The Executive Committee of the United Society, with the help of Sir John Shelley, have spoiled this pretty scheme for increasing the power and wealth of the Pharmaceutical Society.

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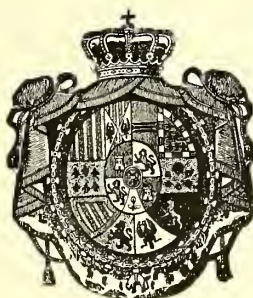
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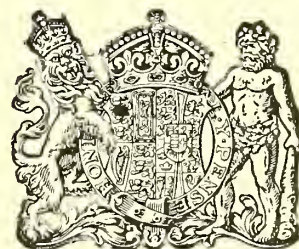
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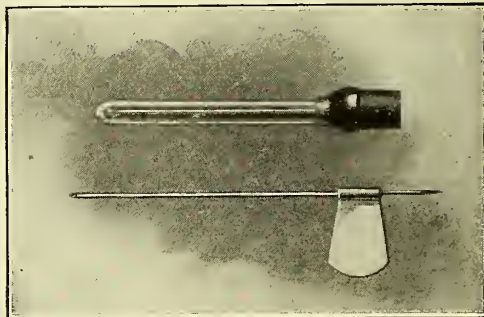
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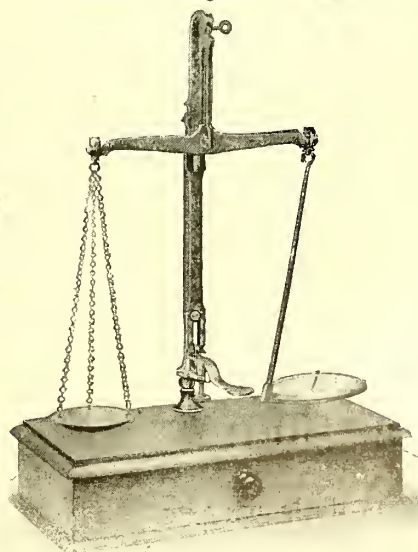
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Oxymel Scillæ, B.P., 5 cwt. @ 34/6 cwt.; 1 cwt. @ 38/6 cwt.; * 7 lbs. @ 7d. lb.

Papain, 1-80, 1 oz. @ 1/9 oz.

Paranthum Durum, B.P., 2 cwt. @ 3½d. lb.; 1 cwt. @ 3½d. lb.; 56 lbs. @ 3½d. lb.; 7 lbs. @ 4½d. lb.; Molle Flav., B.P., 3½ cwt. @ 23/6 cwt.; 1 cwt. @ 33/- cwt.; 28 lbs. @ 4½d. lb.; 7 lbs. @ 5d. lb.; Alb. B.P., 3½ cwt. @ 66/- cwt.; 28 lbs. @ 8½d. lb.

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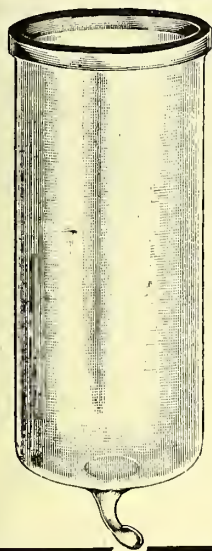
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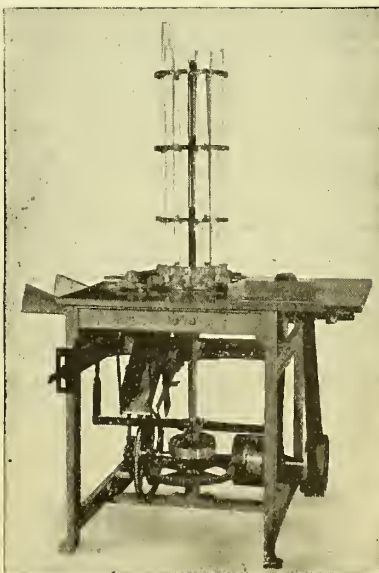
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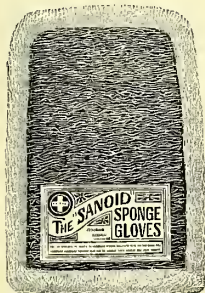
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In screw-cap amber glass jars, patent stoppers. Round, square and oval. $\frac{1}{2}$ lb., **5/6**; 1 lb., **8/-**; 2 lb., **14/-**; 4 lb., **25/-** per doz.

Also put up in 1 lb. oval amber Wood's jars, 1 lb., **9/-** doz.; 2 lb., **15/-**

PHOTOGRAPHIC SPECIALITIES.

"Photopel" was the first Compound Photographic Pellet put on the market, and was originally produced by ourselves, under Patent 8085 in 1889

"PHOTOPEL"

(REGISTERED)

A Developing
Photographic Pellet.

The object of "Photopel" is to minimise the trouble of preparing developing solutions for photographic use, and to combine in a portable and permanent form the necessary materials for producing negatives or more finished pictures as opals, transparencies, etc. "Photopel" is alike adapted for Negatives, Opals, and Lantern Slides.

Prices.—Bottles containing 24 Pellets of "Photopel" (sufficient for 24 $\frac{1}{2}$ -plates or 48 $\frac{1}{4}$ -plates), **8/- per doz. net.**

PACKET DEVELOPERS ("Photopel" Brand).

PYRO-SODA. METOL-QUINOL. GASLIGHT PAPER. HYDROKINONE. Each packet makes 10 oz. of solution.

Prices.—Per gross, **15/- net.**

COMBINED GOLD TONING AND FIXING BATH. GOLD TONING BATH.

Prices.—Per gross, **18/- net.**

These are put up in boxes of one dozen each. Each powder is well wrapped in waxed paper, and will keep without deterioration for any length of time. Name and address on six dozen.

Warehouses, Laboratories & Drug Mills, Coventry.

London Depot: 2 BATH STREET, CITY ROAD, E.C.

THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C.

SATURDAY, APRIL 17, 1915

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID** (except in the case of serial advertisers), and to ensure prompt insertion **REMITTANCES MUST ACCOMPANY INSTRUCTIONS.**

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done.

PROVIDED THE MONEY IS TELEGRAPHED

at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 3817 Central (3 lines). Telegraphic Address: "Chemists Cannon London." (Three words counted as two.)

**BEST RESULTS
EVERY WEEK!**

← That is what advertisers in
The Chemist and Druggist
Supplement secure. Not in-
definite returns from spasmodic and inflated
circulation, but regular, steady success—the
best possible in the Drug Trade. It gives

THE PUBLICITY IT PAYS TO PAY FOR.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—MIDDLESEX (Rapidly Rising Locality).—Retail and Dispensing Business; excellent position; returns £1,500, with good profits; attractive shop, handsomely fitted and fully stocked; comfortable residence; vendor, desiring an early transfer, will accept reasonable terms.

2.—KENT (Suburban).—Retail and Dispensing Business; capable of extension; returns £700; the shop offers a good nucleus; convenient house, with garden attached; price £450, about value of stock and fixtures.

3.—LONDON, N.E.—To be sacrificed for £300, an excellent Retail Business, giving a clear income of about £250; returns show a little drop owing to ill-health; capital business premises; very well stocked and fitted.

4.—LONDON, S.E.—Middle-class Retail and Dispensing Business for Sale through ill-health; returns about £900, at good prices; roomy house; held on lease; will accept first reasonable offer for speedy transfer.

5.—LONDON (South of).—Old-established Business, situate in busy main thoroughfare; returns £700; one or two good Proprietaries are included; price £275.

6.—HOME COUNTY.—Partnership; half-share for Disposal; returns £2,200; gross profit £1,000; good opening for a young, energetic man.

7.—CHESHIRE.—Retail and Dispensing Business; returns average £500; net profit £170; rent £32, which includes residence; price £350, or near offer.

8.—SOUTH OF ENGLAND (Death Vacancy).—For immediate Disposal, an old-established Business, situate in the centre of town; gross profit £1,000; valuation terms entertained; scope for considerable increase.

9.—WEST COUNTY.—A good General Country Retail Dispensing and Agricultural Business, together with Wines, Spirits, and Grocery; no opposition; returns £50 per week, at fair prices; good house, garden, and outhouses; rent £40; price £850.

10.—YORKS.—Unopposed Business; returns £450, with scope for extension; net profit £160; rent £19, rates £5; commodious house, bath (h. and c.); population 2,500; price £250.

11.—SCOTLAND.—Retail and Dispensing, much let down, for Sale owing to ill-health and old age; returns £500, formerly £1,000; a young man with energy would soon materially increase the business; price to be arranged.

12.—ESSEX.—Thoroughly sound Retail and Dispensing Business, situate in rapidly rising health resort; returns £1,043; net profit about 30 per cent.; price £600.

13.—HOME COUNTY.—Family Retail and Dispensing Business; village in midst of glorious country, about 750 feet above sea-level; returns £2,000 (present rate), at fair prices, and increasing steadily; terms, goodwill £125, stock and fixtures at valuation.

14.—GREAT WESTERN MAIN LINE.—Unopposed Business; net income, after every expense is paid, £500; rent £23 10s.; comfortable residence, with good garden; price £550.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

BRETT & CO.

Licensed Valuers,

73 LAUREL ROAD, LEICESTER.

Telegrams, "Brett Leicester."

Telephone 1934.

F. J. BRETT, M.P.S.,

GIVES PERSONAL ATTENTION TO ALL VALUATIONS.
NO CHARGE TO BUYERS.

AGENCY.—We have always a large number of *Buyers* on our books, and we can frequently find a purchaser at once. We also have a *Private Register* for vendors who are in no hurry to sell, and who do not wish their businesses to be advertised.

STOCKTAKING SPECIALISTS to the Entire DRUG TRADE.

£1,500 returns.—EASTERN COUNTIES.—Good house, garden, etc.; country district; net profit about £400; price £875.

£700 returns.—DEVON.—Light good-class Retail, in picturesque district; price £300.

£900 (nearly) returns.—SOUTH.—First-class Retail and Dispensing, with aristocratic connection; plenty of room to extend; price about £750.

£9 returns weekly, capable of doing £20.—LIVERPOOL.—Good corner shop, near Docks; very profitable; price £170.

£430 returns.—SHEFFIELD.—General Retail, with appointment worth £60 per annum.

£600 returns.—LONDON, S.W.—General Light Retail, in desirable suburb; qualified man would greatly increase.

£1,400 returns.—WEST COAST.—Exceptionally nice-class Retail, with good Specialities; unlimited scope for Optics and Photo; very desirable house, garden, etc.; price £900.

We have cash Buyers for businesses from
£500 to £5,000.

Valuations conducted upon the shortest notice
at moderate fees.

BERDOE & FISH,

VALUERS & TRANSFER AGENTS,

55 Jewry Street, Fenchurch Street, City.

Telephone: 1809 CENTRAL.

NO CHARGE TO PURCHASERS.

1.—MIDDLESEX (Rapidly Rising Locality).—Good-class Retail and Dispensing Business, in very best position; returns last year £1,510, and this year so far shows good increase; modern premises, fitted in best style; price for goodwill and fixtures £450, stock at valuation.

2.—BUCKS.—Good Light Retail, Dispensing, and Prescribing Business, in pleasant market town; returns nearly £1,300; net profit £400; Assistant kept; large house and garden; price £800.

3.—KENT COAST.—Good-class Retail, Dispensing, and Prescribing Business, in excellent position; returns £1,200; low rent; good house and Pharmacy, well stocked; price £550.

4.—ESSEX (Popular Health Resort).—High-class Family Retail and Dispensing; returns average £16 weekly; good profits; plenty of scope; modern house and pharmacy; price £625, or offer.

5.—SUSSEX COAST.—Unopposed Light Retail Business, increasing; returns over £800; net profit £250; good house; central position; well fitted and stocked; price £500.

6.—KENT (40 Miles Out).—Unopposed Light Country Retail; no heavy trade; returns about £600; good profits; excellent modern house and shop, well stocked; price £350.

7.—LONDON, N.W.—Sound middle-class Cash Retail Business; in good position; returns over £1,500; net profit nearly £500; books open to fullest investigation; own property; price £800.

8.—LONDON SUBURBS.—We have a large selection of Businesses on our registers; prices from £150 to £1,500; please state requirements.

STOCKTAKINGS.

We undertake stocktakings on a very low scale of commission or an agreed fixed fee, and also price out Chemists' own stocktakings. Please apply for our terms.

Businesses Wanted. Buyers Waiting.

PARSON C. BAKER

1 MOUNTFIELD ROAD, CHURCH END, FINCHLEY, N.

50 years' experience in every branch of business.

Recommended by—BRITISH DRUG HOUSES, LTD.

MEGGESON & CO., LTD.

BARCLAY & SON, LTD.

Tel. No. Finchley 313.

All correspondence should be addressed as above.

And at 174 VICTORIA ST., S.W., Ph.C. Tel. No. Victoria 27.

DEATH Vacancy.—After continued ill-health a neglected Business, now returning only £450, in best end of popular and increasing pleasure resort, East Coast; should return £1,000 easily; excellent modern house and large, well-fitted shop; rent £55; price asked £300.

VENDOR retiring on competency obtained solely from business now offered for sale on account of ill-health; returns under manager over £1,500; formerly over £2,000; scope for indefinite extension; large town South Wales; Welsh not necessary; value of stock and fixtures only, and part purchase money can remain; best position; personally inspected and recommended.

PROSPEROUS Business in Carmarthenshire returning over £2,300, including Gilbey's sole agency £850; N.H.I. £150; vendor, entering the medical profession, will accept first reasonable offer near the value of the stock and fixtures, about £1,000.

Valuations for any purpose promptly conducted at moderate prices.

THOS. TOMLINSON & SON

CHEMISTS' VALUERS, TRANSFER AGENTS,
AND EXPERT STOCKTAKERS,

45a MARKET STREET, MANCHESTER.

ESTABLISHED OVER HALF A CENTURY.

Telegraphic Address: "Tomtom."

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

BUSINESSES FOR DISPOSAL.

3s 6d. for 50 words or less; 6d. for every
10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

CARDIFF.—Old-established Chemist's Business; double-fronted shop and in the main thoroughfare; thickly populated neighbourhood; fine opportunity for an energetic man; low rent on lease; £40 or nearest offer; satisfactory reasons for disposal. Apply, "Chronic," 39 Corporation Road, Grangetown, Cardiff.

EAST LANCASHIRE.—Good-class Retail and Dispensing Business for Sale in manufacturing town; shop splendidly situated in main thoroughfare; well stocked, modern fittings, electric light; convenient house, separate entrance; reasonable rent; splendid opportunity for energetic young man. Apply, 27/27, Office of this Paper.

KENT.—Mixed Country Business, doing £500 and increasing; good opening for Optics and Dentistry; well-stocked shop; prices good and mostly cash; rent £28; rates about £7; price about £250; full investigation offered. The Pharmacy, Minster, Thauet.

LANCASHIRE.—Business for Disposal, near Manchester; returns (including Insurance, between 8,000 and 9,000 per annum) about £950; net profit £325; books kept. Full particulars to genuine buyers on application to 30/35, Office of this Paper.

LONDON, S.E.—Residential locality; first-class Retail and Dispensing Branch Business for Disposal; returns £600-£700 under management entirely; beautifully fitted and well stocked; owner has another very large business which occupies the whole of his energies, and would sell branch at a sacrifice owing to management difficulty; stock and fixtures quite £550; accept £420. "Energy" (30/34), Office of this Paper.

LONDON, S.W.—Advertiser, wishing to do his little bit by joining the Colours, is looking out for a quick purchaser of his Business; price, valuation of stock and fixtures. Apply, fixing your own time convenient for inspection and investigation, to "Push and Go" (30/32), Office of this Paper.

MIDDLESEX.—Handsome Pharmacy, in charming high-class residential district; plenty of scope; excellent opportunity for beginner; opened last year; reason for disposal, management trouble; 7 years' lease (renewable); price £450, cost of fixtures and stock only. 33/33, Office of this Paper.

MIDLAND COUNTIES (Market Town).—Old-established Mixed Business; only changed hands once in 79 years; excellent house and premises, with garden attached; freehold; property of vendor, who is retiring from business, and can be either rented or bought. 30/8, Office of this Paper.

SOUTH WALES.—Chemist's and Wine and Spirit Dealer's Business for Sale; established nearly 40 years; takings nearly £2,500; excellent investment; profits good; scope for increase; terms to be settled by mutual agreement. Apply, 271/36, Office of this Paper.

WEST MIDLANDS.—Light Retail and Dispensing Business for Sale; pleasant district and growing neighbourhood; several additions which pay rent; also Branch Business in connection; N.H.I. Dispensing, etc.; cause of selling, proprietor joining R.A.M.C.; reasonable price for quick sale. Reply first instance, 33/32, Office of this Paper.

WEST OF ENGLAND.—Exceptional opportunity for smart pushing man with limited capital; good Family Retail and Agricultural Business in growing market town; charming locality; returns £1,100, practically all cash; smart Pharmacy, heavily stocked; low rent; price £600; will allow £400 to remain to a good man well up in Agricultural lines. Apply "Cupri" (35/036), Office of this Paper.

YORKSHIRE (North-East Coast).—Old-established Business for valuation of stock and fixtures; well fitted; no agents. 34/32, Office of this Paper.

YORKSHIRE COAST.—For Sale, well-situated Light Retail and Photographic Business; pleasant locality; turnover nearly £1,000, increasing; stock and fixtures at valuation, about £400. 30/11, Office of this Paper.

CHEMIST'S Business for Sale; corner, double-fronted shop on main road; well-populated and growing suburban district of Manchester; well fitted up and profitable General business. Apply, Alfred G. Deacon & Co., 60 and 62 Spring Gardens, Manchester.

DEATH Vacancy.—After continued ill-health, a neglected Business, now returning only £450, in best end of popular and increasing pleasure resort, East Coast, should return £1,000 easily; excellent modern house and large, well-fitted shop; rent £55; price asked £300. "Solieitor," 1 Mountfield Road, Church End, Finchley, N.

DRUG Store, with good Photographic trade, main road, N.E. London; smart up-to-date front; good living trade; Panel Chemist could largely increase; special reasons for selling; well stocked; all at £400 or valuation. 36/11, Office of this Paper.

FIRST-CLASS Light Retail and Dispensing Business for Disposal, within 30 miles of London; returns £3,000; gross profit 40 per cent.; scope for doing at least another £1,000 a year; suit two energetic young men with not less than £2,000. Address (enclosing reference), "Nemo" (35/36), Office of this Paper.

HIGH-CLASS Retail and Dispensing, having several titled families on the books; oldest business in high-class inland watering-place, South; the Business is only suited for person accustomed to this class of trade; returns nearly £900; price £750; vendor owns property, and is particularly desirous that his successor should do well. "South" (68/049), Office of this Paper.

ON easy terms; first-class position in Eastern Counties town; look-up shop; low rent; good sale for own Proprietaries; Wine Licence; returns £815 last year, has done more. C. H. C. Fitt, 15 St. Stephen's Road, Norwich.

SMALL genuine Business in Lancashire seaside resort; price wanted about £200; good living accommodation; rent £25 per annum, with rates; house could be let off, making rent nominal; full particulars and every investigation to bona-fide applicant. Apply, 34/8, Office of this Paper.

SMALL old-established Chemist's and Sundries Business in populous suburb with good prospects for Sale; has been for many years under unqualified management, but even so doing a fair trade; customers average 400 per week; addition of Panel Dispensing alone would bring good extra income; chance for pushing young man; purchase price would not exceed £250, including fixtures, goodwill, and stock, the latter to be at valuation; offers considered; principals only. Address, in first instance, John W. Hinks, Chartered Accountant, 115 Colmore Row, Birmingham.

£60.—Well-stocked Pharmacy, in thickly populated neighbourhood of a large manufacturing town; increasing Panel Dispensing; double-fronted shop; living accommodation; suit married man; vacancy for Post Office, authorities would consider application for same; no opposition; moderate rental. "Pharmacist," 54 Hartington Road, Preston.

£150 for a snug Pharmacy in good seaside resort; main thoroughfare; best position; great scope for Optics, Dentistry, Photographics, and Insurance Dispensing; good house and garden. "Pilozyne" (33/11), Office of this Paper.

£200 valuation, or nearest offer.—Profitable Retail and Prescribing Business; London; returns £650; capable of great increase; rent £34; let off 9s. weekly; owner going abroad. 35/32, Office of this Paper.

£900 net profit.—Vendor, who is retiring after a very successful business career, will sell his Business, showing practically the above profit; price £2,000; only applicants furnishing banker's reference that they have this capital will be answered. "Private" (68/490), Office of this Paper.

£1,200 RETURNS.—Continued ill-health of proprietor; first-class Business for Disposal; low rent and lease; best position in main thoroughfare of good-class residential neighbourhood of Newcastle-on-Tyne; well stocked and fitted out; gross profit about £500; price about £850. Apply, 31/20, Office of this Paper.

£3,000 returns (nearly).—Exceptionally sound Retail, with unusual Proprietaries; capable, with more capital, of unlimited scope; net profit £500 to £600; capital required to purchase about £2,300; the whole can be purchased by valuation. "Preps." (68/49), Office of this Paper.

AGENCIES.

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AN Opportunity.—An old-established firm, with large Home and Colonial connection with general manufacturers, is open to exploit any good thing for which a general market could be created. Address, 61/39, Office of this Paper.

PARIS.—A French Chemist, located in the best district in Paris, is desirous of representing a few English or American Manufacturers of suitable Pharmaceutical Specialties for that market. Apply, in first instance, to W. Borg, 122 Uxbridge Road, London, W.

BUSINESSES WANTED.

ADVERTISER wishes to Purchase small Business for cash, showing a net profit of £150 or upwards per annum; South or South-East of England preferred (not London); house accommodation attached to shop essential. Send fullest particulars to "Ajax" (33/2), Office of this Paper.

PHARMACIST wishes to Purchase small, good-class Business in London or near to; neglected business capable of increase preferred. State full particulars, in confidence, to "Sulphonal" (32/9), Office of this Paper.

REQUIRED by Chemist and Optician, Business (profits not less than £200) or opening for same; town of over 10,000 preferred; valuation terms for business (cash down), or £10 for opening if acted upon. Apply, "X. Y. Z." (32/20), Office of this Paper.

WANTED, a middle-class Business, centrally situated in medium-sized or market town, doing a good large turnover; Yorkshire or thereabouts preferred; cash settlement; a good opportunity for any gentleman wishing to retire from business. "Reliable" (34/31), Office of this Paper.

FOR SALE.

GOOD second-hand National Till for Sale, cheap; used with two Assistants. Write, "P. W.," 61 Boundary Road, Merton, S.W.

PROPRIETARY Corn-Cure, complete with valuable trade-mark, stock, and effective advertising materials; going cheap for cash. Address, "Chemicus," 18 Jeffreys Place, London, N.W.

TO LET.

PADDINGTON.—85 Westbourne Park Road, between Royal Oak and Westbourne Park Stations, and four minutes from Westbourne Grove; Shop, parlour, and basement room to let; redecorated throughout; rent 11s. weekly (inclusive); suitable for Chemist, preferably Insurance Pharmacy; good opening for up-to-date man. View, then apply, Westcott, 41 Finsbury Square, E.C.

TO Let, Dental Rooms over Chemist's Shop, near Oxford Street; recently vacated by L.D.S.; rare opportunity. 34/2, Office of this Paper.

PARTNERSHIPS.

PARTNER wanted, with some capital, in old-established and progressive business near the West End of London; energy and enterprise, essential; exceptional chance for good man; advertiser, who has other business, would consider offer for purchase outright. 35/10, Office of this Paper.

PHARMACEUTICAL Chemist, Wholesale and Retail experience, seeks Partnership; preferably in firm where Manufacturing experience may be utilised; moderate capital. 35/37, Office of this Paper.

QUALIFIED Manager as Partner required, in about a month's time, to take charge of a new Branch shop in good-class growing neighbourhood near London; knowledge of Photography essential; £200 to £250 to be invested in the business; salary and share in profits. Full particulars to 35/30 Office of this Paper.

APPRENTICESHIPS.

APPRENTICESHIP required for youth aged 16½ years; passed Preliminary; best references; indoors preferred. Marley, Cartref, Minehead.

APPRENTICESHIP required for youth, aged 16; slight knowledge of the trade; within 30 miles Nottingham. State full particulars, W. G. Matthews (Wyleys, Ltd.), The Mount, Melton Road, Nottingham.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

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RETAIL.

ALDERSHOT.—Assistant required for a good Retail Mixed business; must be first-rate Counterman. Reply, stating salary-required, references, etc., to Allen & Lloyd, Aldershot.

BATH.—Assistant, aged 22 to 24, with good experience in Dispensing, required in good-class business; Junior employed also. Please give particulars of experience and state salary required in first letter to John Hawes, 37 St. James's Square, Bath.

BIRKENHEAD.—Smart Junior for good-class Dispensing business. Apply, with usual particulars and salary required (outdoors), to W. S. Robinson, York Place, Birkenhead.

BIRMINGHAM.—Unqualified Assistant; Counter, Dispensing, Window-dressing. Please send full particulars and photo (if possible), Bramleys, 87 Holyhead Road, Handsworth, Birmingham.

BIRMINGHAM.—Assistant; unqualified; good Window-dresser and Counterman; permanency for right man. Send full particulars, salary required, references, and photo (if possible), which will be returned, H. T. Hall, M.P.S., Chemist, Dogpool, Birmingham.

BOLTON UNION.—Wanted, for the Townleys Hospitals, Farnworth, near Bolton, a qualified female Dispenser; salary £80 per annum, with rations, apartments, and washing; applications, on forms which may be obtained from me with print of conditions of appointment, and for which a stamped addressed foolscap envelope must be enclosed, may be sent to me not later than Saturday, May 1, 1915; canvassing the Guardians, either directly or indirectly, will be a disqualification. H. I. Cooper, Clerk to the Guardians. 28 Mawdsley Street, Bolton, April 8, 1915.

BRIGHTON.—Assistant, unqualified (outdoors), required May 14 for first-class Retail and Dispensing; no N.H.I.; easy hours; good Dispenser essential. Apply, stating age, height, salary required, and references, to F. Read, 4 Victoria Terrace, Hove.

RESULTS
OF ADVERTISING IN THIS SUPPLEMENT
LAST WEEK APR. 10 1915
NATURE OF ADVT. REPLIES
SIT. WANTED 28
REPRESENTATIVES 23
BUSINESS WANTED 15
DISPENSER 14
BUSINESS FOR DISPOSAL 10

This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

RETURNING PHOTOS, Etc.

Advertisers in this Section who receive portraits and copies of testimonials from applicants with a stamped addressed envelope for reply are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.

TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed c/o this Office. The Publisher desires to make it clear that this is quite superfluous, and perhaps this reminder will obviate the necessity of the frequent return by him of such remittances.

ANSWER IN TERMS OF THE ADVERTISEMENT AND

REMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suitableness.

BE BRIEF BUT CLEAR.—Millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the material set before him.

BRIGHTON.—Qualified Assistant; indoors; easy hours; comfortable home; very little N.H.I. State salary, Smithson, 1 Preston Road, Brighton.

BRISTOL.—Young qualified Assistant wanted; Dispensing (good class); easy position; comfortable home. References, carte de visite, and salary asked to Edward Maish, Cotham Brow, Bristol.

CARDIFF.—Junior Assistant required; Light Retail and Dispensing; short hours; no Sunday duty; good salary. Davies, Chemist, 14 Broadway, Roath, Cardiff.

CITY.—Young Junior Assistant wanted; outdoors; no Sunday or night duty. Apply, "X. Y. Z.," 19 Holcombe Road, Ilford, Essex.

DONCASTER.—An unqualified Assistant required for good-class business; outdoors. Apply, giving particulars of experience, stating age and salary required, to Walter E. Plant, Pharmaceutical Chemist, 28 High Street, Doncaster.

FOLKESTONE.—Wanted, about May 1, Assistant (25-30), one with Continental experience preferred, for high-class Light Retail, Dispensing business. Photo and particulars to Ransford & Canningham, Folkestone.

FOLKESTONE.—Wanted, a reliable and competent Assistant for Light Retail and Dispensing business; qualified or unqualified; outdoors; permanency; no Sunday duty; no Insurance Dispensing; excellent opening for suitable man; married preferred. Apply, stating full particulars, to J. J. Giles & Son, Chemists, Folkestone.

GODALMING.—Junior required for Dispensing Counter; qualified preferred; outdoors. Mather, Pharmacist.

HULL.—Junior Assistant wanted, about 20, indoors, in good-class Retail and Dispensing business; two Assistants kept. State age, height, salary required, and references to Metcalfe & Son, Pharmacists, Hull.

LANCASHIRE (Preston).—Unqualified Junior required for brisk Mixed business; must be capable Dispenser and Counterman. State age and salary required, 30/207, Office of this Paper.

LEEDS (Outdoors).—Capable Assistant required at once in a good-class business; must be a good Dispenser and have knowledge of Photography; state age, height, and salary and give references. Apply, M. E. Murray, 221 Woodhouse Lane, Leeds.

LIVERPOOL.—Wanted, qualified Assistant-Manager; £3 per week and commission; also Junior. Keir, 86 Everton Road.

LIVERPOOL.—Qualified Assistant; outdoors; no Panel or Sunday duty. Particulars to "Pharmacist," c/o Messrs. Hy. Jackson & Sons, Druggists' Sundriesmen, School Lane, Liverpool.

LLANDUDNO.—Assistant, also Junior, required for Dispensing and General Retail business; outdoors; Assistant to sleep on the premises. Send photo and full particulars to Lewis A. Cocker, Pharmaceutical Chemist, Llandudno.

LONDON (City).—Young qualified Assistant required for high-class business; comfortable berth; would suit man recently qualified. State age, salary required, and when at liberty, 30/27, Office of this Paper.

LONDON LOCK HOSPITAL, 91 Dean Street, Soho.—Qualified Dispenser (male or female) required, with Minor or Hall qualifications, immediately; commencing salary £90 per annum, with partial board. Applications to be sent on or before Tuesday next to the undersigned at the Offices, 283 Harrow Road, Paddington, W. By Order of the Board, Hy. J. Eason, Secretary.

LONDON.—Vacancy occurs in a large Pharmacy for a Lady Dispenser. Applicants please give full particulars in first letter to "Manager" (56/73), Office of this Paper.

LONDON, E.—Qualified Assistant wanted by Chemist commencing medical curriculum; good opening for suitable man with prospect of acquiring the business; also unqualified Assistant wanted at once. Full particulars in reply, including salary required, to "Pharmacist" (36/23), Office of this Paper.

LONDON, N.—Qualified Manager wanted for medium-class trade in brisk business; married preferred; permanency for suitable man. Apply, giving salary required and usual particulars, to 70/5, Office of this Paper.

LONDON, N.E.—Wanted, competent Assistant, one used to Dispensing, capable of taking charge when necessary. State age and full particulars to G. J. Lusher-Pentney, 98 Queen's Road, Dalston, N.

LONDON, N.E.—Qualified Assistant; elderly preferred; comfortable berth for reliable man desiring a permanency. State salary, references, and all particulars to "Urgent" (36/26), Office of this Paper.

LONDON, N.W.—Assistant wanted; outdoors; not over 30 years; only one kept; must have had good Dispensing and Counter experience; personal application preferred, if by letter state full particulars, salary required, and enclose photo, T. F. Elton, 28 Endsleigh Gardens, Euston Square, N.W.

LONDON, S.W.—Wanted, an Assistant who has had good Dispensing experience; qualified; 23 to 30 years of age. 70/6, Office of this Paper.

LONDON, S.W.—Messrs. Amore & Co. require a qualified Senior Assistant. Apply, with full particulars, at 173 Sloane Street, S.W.

LONDON, S.W.—Required, in a large West-End establishment, gentlemanly Assistant, of good appearance and address; short hours of work and no Sunday duty. Write, stating full particulars, to 117, Sells' Advertising Offices, Fleet Street, E.C.

LONDON, S.W.—Required, a Dispenser, holding the Minor qualification; salary to commence 50s. per week (outdoors); hours of work approximately 8.45 to 6 p.m.; no Sunday duty. Write, stating full particulars and experience, to 118, Sells' Advertising Offices, Fleet Street, E.C.

LONDON, S.W.—Assistant wanted; quick and accurate Dispenser; qualified preferred. Apply, with usual particulars, to Topholme & Son, 1 Coleherne Terrace, Earl's Court, S.W.

LONDON, W.—Wanted, qualified Dispenser for Oxford Street Branch; high-class experience essential. Apply, S. F. Gess, Ltd., 134 Kensington High Street, W.

LONDON, W.—Junior Assistant (outdoors) with some knowledge of Dispensing; suit one just finished apprenticeship; 30s. weekly to commence. Strode & Co., 88 Askew Road, Shepherd's Bush, W.

LONDON, W.—Assistant wanted at once; must be a smart Dispenser; applications from lady Dispensers with good Dispensing experience entertained; a comfortable berth. Please apply, with the usual particulars, to C. E. Wickham, 298 Harrow Road, W.

LONDON, W.—Fully qualified Chemist wanted to Manage and take financial interest in first-class Retail business; good prospects; salary and commission; option of acquiring same as and when desired. Apply, 32/16, Office of this Paper.

LONDON, W.—Wanted at once, young Assistant; good West-End experience; must be a neat and accurate Dispenser and capable Counterman; outdoors; permanency; progressive salary. Apply, Cofman's Pharmacy, 5 Bloomsbury Street, W.C.

LONDON, W.—Qualified Assistant to sleep indoors. Application, by letter, giving particulars of experience, etc., to J. R. Walker, 36 New Cavendish Street, W.

MANCHESTER.—Assistant wanted for Checking Office; some knowledge of N.H.I. pricing required; hours 8.30 to 6 p.m. Apply, stating age, experience, and salary required, G. A. Mallinson, Chemist, Withington, Manchester.

MANCHESTER.—Junior for good-class Retail and Dispensing business. State full particulars as to age, experience, and salary required to J. S. Breese, Pharmaceutical Chemist, Rusholme.

MARGATE.—A competent Assistant, qualified preferred, accustomed to good-class Retail and Dispensing, with Photographics; good references essential. Apply, stating experience, age, height, salary required (outdoors), and enclose photo, to D. T. Evans, The Parade, Margate.

MARGATE.—Qualified Branch Manager for permanency; competent and trustworthy; about 30; good-class Retail and Dispensing business; full particulars of last two engagements, age, height, and photo, if possible, state salary (unfurnished rooms on premises). W. M. Rosser, Bailey & Co., 2 Ethelbert Terrace, Margate.

NEAR Manchester.—Wanted, young Lady for Dispensing and Counter. State age, salary, experience, and references. 32/220, Office of this Paper.

NEAR MANCHESTER.—Wanted, qualified Assistant for quick Cash business; £3 per week and commission; must be smart, a willing worker, and good Salesman. Address, with full particulars, age, references, and photo, to 32/022, Office of this Paper.

NEAR MANCHESTER.—Unqualified Assistant for quick Cash business; must be reliable and a good Salesman; salary 30s. per week and commission. 3/22, Office of this Paper.

PETERBOROUGH.—Wanted, outdoor Assistant. Please state age, experience, and salary required to Hall, Pharmaceutical Chemist, Peterborough.

PLUMSTEAD, S.E.—Qualified Manager (outdoors) required for Photographic and Dispensing business. Apply to A. Goldthorpe, Chemist, 70 Herbert Road, Plumstead, S.E.

PLYMOUTH.—Qualified Assistant required for Light Retail business; no Insurance Dispensing; outdoors; permanency to a reliable man requiring comfortable berth; must have undeniable references; elderly gentleman not objected to; state salary required. Apply, Stokes & Son, Union Street, Plymouth.

ST. LEONARDS-ON-SEA.—Assistant wanted (indoors) for Light Retail and Dispensing. State age, height, references, and salary required, enclosing photo, to T. W. Jones, 55 Bohemia Road, St. Leonards-on-Sea.

SOUTH COAST.—Assistant required; experienced; comfortable permanency, with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

SOUTHPORT.—Unqualified Assistant required for modern business; Counter and Dispensing experience essential; permanency for suitable man; also Improver. Will applicants please give full particulars in first letter, stating age and salary required (outdoors), to Charles Hare, Pharmacist, Birkdale?

STAMFORD.—Wanted (at once), Junior, indoor or out; indoor preferred. Apply with reference, stating experience, salary required, etc., and enclosing photo, to F. Dickinson, St. Mary Street, Stamford.

WESTLIFE-ON-SEA.—"Body's Pharmacies," Chemists and Ophthalmic Opticians, have a vacancy for good qualified or unqualified Assistant, also Junior; must be accurate Dispensers and accustomed to good-class modern Retail; facilities for experience and progression. State full particulars and salary required (indoors) first letter, enclosing photo or suggest personal interview, Body, "Westwood," Westlife-on-Sea.

WESTON-SUPER-MARE.—Reliable Assistant, unqualified, required for good-class Light Retail and Dispensing business; knowledge of Photography preferred. Please state full particulars and salary required (outdoors) to Tydeman, Pharmacist, Weston-super-Mare.

WESTON-SUPER-MARE.—Lewis Wing, Ltd., require a qualified Assistant at once; outdoors; reliable Dispenser and courteous at Counter. Send photo and full particulars, 8 The Boulevard, Weston-super-Mare.

WORTHING.—Assistant wanted; outdoors; permanent; good-class business. Send particulars, with references, to W. Aston, Pharmaceutical Chemist, Worthing.

YORKSHIRE.—Elderly qualified Assistant required immediately; easy hours; work light; permanency. State salary required, 254/204, Office of this Paper.

A CAPABLE unqualified Assistant in good-class Country Retail; outdoors; a comfortable berth to a reliable man. Apply, giving usual particulars and enclosing photo, to Benjamin, Chemist, Ross-on-Wye.

A COMPETENT, gentlemanly Assistant wanted at once in high-class Dispensing business; indoors. Send full particulars, with photo, to Collins, Chemist, Woodhall Spa.

A N Assistant for a good-class Country Dispensing business; unmarried; outdoors. State salary, experience, etc. (no Sunday duty), F. Fresson, Pharmacist, Stovenage, Herts.

A N Assistant or Locum wanted, lady or gentleman, for Counter and Dispensing. Give full particulars, if qualified, age, height, references, last two places, with salary (outdoors) and when disengaged, Henry Tinker, The Heights, Manchester. Letters not answered in three days to be considered declined.

A SSISTANT for high-class Credit business; no Insurance work; reliable Dispenser; gentlemanly address and education; indoors; hours and work comparatively easy. Apply, "K.", c/o W. Jackson & Sons, School Lane, Liverpool.

A SSISTANT for the Dispensing; Counter; must be accurate and reliable; two kept; hours good; lovely country district; indoor-outdoors. Hart, Ross.

A SSISTANT, unqualified, wanted for Counter and Dispensing; also N.H.I.; accustomed to good-class business; outdoors. Apply, stating salary, experience, references, to James Lloyd, 125 St. John's Hill, Clapham Junction, S.W.

A SSOCIATION OF WOMEN PHARMACISTS.—The Employment Secretary of the above Association (address, Gordon Hall, Gordon Square, W.C.) would be glad to hear from any women pharmacists holding the Major or Minor qualification who wish for work.

A T Once.—Qualified Senior, principally for N.H.I. Dispensing. Please state full particulars, age, salary, etc., Fryer, Chemist, Uppermill, near Oldham.

C APABLE Junior Assistant; £1 weekly (indoors). Apply, with full particulars, and enclose photo if convenient, T. Johns, Chemist, 73 High Street, Gravesend.

C APABLE unqualified Assistant wanted at once in Dispensing business; outdoors. Apply, with full particulars of experience, stating salary required, and if convenient enclosing photo, to A. E. Hobbs, 33 Mount Pleasant, Tunbridge Wells.

C OMPETENT Assistant wanted immediately in Mixed Country business; must be steady, honest, and possess a knowledge of Photography; experience in country business preferred; short hours and no Sunday duty. Give full particulars, stating salary, etc., to Hogg, Chemist, Ulverston.

C OMPETENT unregistered Assistant required; outdoors; no Sunday duty. Apply, Lewis & Burrows, 146 Holborn Bars, E.C.

D ISPENSER required (unqualified) for three weeks from April 26. State salary required (sleep out) and full particulars, Cattermole, Brithdir, Glam.

D OCTOR'S Dispenser; hours 10-1, 7.30-10. 103 Fortress Road, N.W.

E ASY berth and liberal terms to suitable Junior or Second Assistant; good-class brisk business in provincial town with in easy reach of London; fine opportunity for gaining all-round experience; would suit man studying for Minor. Apply, 30/29, Office of this Paper.

H ANDY man wanted, to keep shop clean, put up Stock, etc. (young woman might suit); must have good recent reference. Apply, Guests, Chemists, Tooting Broadway, London, S.W.

I MPROVER or Junior; outdoors; short hours; May or earlier. Full particulars to Thomas, Chemist, Aberaman, Glam.

JOHN LAIRD & CO., Chemists and General Merchants, Limerick, are prepared to appoint a qualified Manager for a large Retail business, including Photographic and Oil and Colour Departments. Applicants are desired to give full particulars as to age and experience, with references and salary required (outdoors).

J UNIOR wanted (outdoors), 20 to 23. State salary required and usual particulars, W. Roberts, Chemist, 73 Brook Street, Chester.

J UNIOR Assistant for good-class Retail and Photographic business. Apply, with full particulars of experience, age, and salary required (in- or out-doors), to Righton, Chemist, Havant, Hants.

J UNIOR, about 20, for Stock, etc.; 1 o'clock Thursdays; no Sunday work; or a young lady with some knowledge of the business might suit. Leverett & Frye, Ltd., High Street, North Finchley, N.

J UNIOR Assistant for middle-class business, with N.H.I. Dispensing; two Assistants kept. Apply (letter only), giving full particulars as to experience, names of references, when disengaged, and salary required (in- or out-doors), "Pharmacist," 115A Stoke Newington Road, London, N.

J UNIOR wanted, about beginning of May, for good-class business; knowledge of Photographic business preferred; indoors or out. Give full particulars and references and state salary required, A. G. Reid, Petersfield, Hants.

J UNIOR wanted; London district; Workman, 9 Church Lane, Leytonstone.

J UNIOR Assistant wanted for good-class business; abstainer preferred; hours 8 to 7.30; Wednesdays 1; Saturdays 9; no Sunday or holiday duty. State age, height, experience, salary required (outdoors), when disengaged, and enclose photo if possible, C. Polgreen, Chemist, Andover, Hants.

J UNIOR required early in May; Insurance Dispensing and Light Retail; hours 8.30 to 7.30. State experience and salary required, references, Pickering, Ph. Chemist, Bishop Auckland.

J UNIOR or Improver required for Light Retail and Dispensing business; hours 8.30-8; outdoors. State age, experience, salary required, and when at liberty, to Wood, Chemist, Reading.

JUNIOR or Improver for Light Retail and Dispensing business; Board indoors and sleep out; short hours; no Sunday duty; comfortable home. Wyatt, Broadway, Barnes, Surrey.

JUNIOR Assistant wanted at once; indoors. Apply, stating salary and usual particulars to J. Selley, 202 Earls Court Road, South Kensington.

LADY Assistant and Bookkeeper wanted (outdoors) for good-class Retail and Dispensing business; duties to keep books, assist at Dispensing and Counter, and put up Stock. State salary required and full particulars to Kirkman, Chemist, New Milton, Hants.

LADY Assistant wanted in good-class business for Dispensing and Counter work; easy hours; outdoors. Please state experience, salary, and references, and when disengaged, to G. A. Johnson, Pharmacist, Stamford.

LADY Assistant required for Dispensing and Photographic business; must have had good Dispensing experience and used to Counter trade in Chemist's shop. Apply, with full particulars of experience, age, etc., and salary required (indoors or outdoors, as preferred), to "Kent" (33/24), Office of this Paper.

LADY Assistant for a high-class Pharmacy in Surrey, any time in May; must be experienced Dispenser; Hall or Minor qualification; age about 25. Please give full particulars of experience and salary expected to "Surrey" (30/10), Office of this Paper.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist as Manager; easy hours; good and progressive salary, with excellent prospects.

MESSRS. COOPER, SON & CO., LTD., 24 Sloane Street, S.W., require a qualified Assistant (23-26 years of age); outdoors; must have had good Dispensing experience. Apply, with full particulars, to "A. J. B. C."

MIDDLE-AGED Manager wanted immediately for small Branch; live over premises. Apply, giving full particulars in first letter, to W. E. Giles & Son, 110 Commercial Road, Newport, Mon.

OUTDOORS; no Sunday duty; Junior Assistant required in an Agricultural and Dispensing business. Apply, with particulars of age and salary required, to Gostling & Co., Chemists, Diss, Norfolk.

OUTDOORS.—Lady Dispenser for Panel and private practice wanted by Essex Doctor. State age, church, experience, and salary, 33/30, Office of this Paper.

PART-TIME, near Victoria, mornings only, 10.15 to 1.15, for Counter, Stock, and Dispensing. Men only with good all-round experience need apply, with full particulars, in first letter, stating age, experience, and salary required, "A B C" (36/7), Office of this Paper.

QUALIFIED Assistant required; indoors; abstainer; elderly man not objected to. Percy Browne, Ltd., 186 Mare Street, Hackney.

QUALIFIED Assistant required for good Family business in a busy market town; permanency, with excellent prospects of advancement. "Ford" (30/027), Office of this Paper.

QUALIFIED Assistant (outdoors), London, W.; duty shared by three. Give all particulars of experience, age, height, and salary required, to Miller, 26 Davies Street, London, W.

QUALIFIED elderly Assistant; must have good references; easy hours can be arranged. The Prosser Roberts Co., Chemists, 323 Walworth Road, S.E.

QUALIFIED Manager required for Branch business. Please give full particulars as to salary required, etc., E. Murray Carruthers, Chemist, 31 St. John's Street, Bedford.

QUALIFIED Assistant; 13 miles from Manchester; N.H.I.; permanent; exceedingly comfortable position; no objection to elderly; temperate habits; hours 9 to 12, 2 to 4, 6 to 9. Apply, giving full particulars, age, salary, 34/36, Office of this Paper.

QUALIFIED Chemist required; easy duties; would suit elderly man; permanency. Apply, Davies, Ltd., 559 Commercial Road, E.

RELIABLE, qualified Assistant; able to take charge occasionally. R. W. Shadforth, Pharmaceutical Chemist, 63 Grove Road, Bow, London, E.

REQUIRED, in a large West-End establishment, for the Front Counter, Lady Assistant, with good experience and lady-like appearance. Write, stating full particulars, to 119, Sells' Advertising Offices, Fleet Street, E.C.

THE British Government require a business man; we require at once a good reliable Manager, experienced and over 30 years of age; salary £3 5s. and commission on Proprietaries; also unqualified man for Relief work; can live on premises if desired; salary £2, with rooms. Apply to "Temperance" (31/33), Office of this Paper.

UNQUALIFIED Senior Assistant of good appearance and address required for a brisk business situate in the West Riding of Yorkshire; hours not excessive; salary £2 2s. per week. "Field" (20/270), Office of this Paper.

UNQUALIFIED Assistant wanted for summer months; accustomed to Dispensing and good-class Retail. State salary required, age, experience, etc., Townley, Chemist, Keswick.

UNQUALIFIED Junior for good middle-class Retail and Dispensing business; indoors; wanted at once if possible. Send full particulars, Savage & Co., Pharmaceutical Chemists, Brighton.

UNQUALIFIED Assistant (outdoors) for Mixed Country business; easy hours; no Sunday duty. State salary required, and send references and usual particulars, to Sturtou & Howard, Fore Hill, Ely, Cambs.

UNQUALIFIED Assistant for Light Retail and Dispensing business near Birmingham; live out; no night or Sunday duty. Applicants should give full particulars of experience, also state age and salary required, to 34/40, Office of this Paper.

UNQUALIFIED young married man for London Branch; permanency; good Salesman and Window-dresser; no Poisons or Insurance Dispensing; fixed salary, commission, and share of profits. State age, last few years' experience, and salary expected to Mr. Radcliffe (32/30), Office of this Paper.

UNQUALIFIED Assistant wanted at once; must be good Salesman and Window-dresser and have a knowledge of Photography; salary and commission. Apply, stating fullest particulars, to 32/18, Office of this Paper.

WANTED, for end June, qualified or experienced unqualified Assistant capable of taking charge, lady or gentleman; elderly not objected to. Usual particulars to Chas. Hamson, Chemist, Peterborough.

WANTED, qualified Assistant, experienced and good Salesman, to sleep indoors; separate sitting-room; board out. Apply, if by letter enclose photo (to be returned), or personally, to R. S. Starkie, 126 Strand.

WANTED, an unqualified Assistant. State age, salary required (outdoors), Clare & Hunt, Scarborough.

WANTED, Assistants (outdoors). Apply, stating age, experience, and salary required, to L. Cameron, Pharmaceutical Chemist, Broad Street, Scaford, Sussex.

WANTED, a competent and trustworthy Assistant in Light Retail, Dispensing, and Prescribing business, within short distance of London; Extractor; permanent and comfortable berth. State age and salary (outdoors), "M.P.H.S." (33/7), Office of this Paper.

WANTED at once, good Junior, used to a brisk Counter trade; able to keep Stock well; easy hours. Apply, stating salary required and giving reference, also enclosing photo (age about 21), to H. Clarke, 31 High Street, Chelmsford.

WANTED, competent Assistant; good references essential. Roper, Ebrington Street, Plymouth.

WANTED, thoroughly reliable unqualified Assistant (single) for important town in Eastern counties; must be good Counterman and accurate Dispenser; outdoors; knowledge of Photography preferred, but not essential; must have good references. Apply, with usual particulars, to "Kino" (20/31), Office of this Paper.

YOUNG man wanted at once as Stockkeeper and to pack Specialities; must be neat and orderly and possess good references. Apply, John Atkins, Chemist, 109 Queen's Road, Bayswater.

35/- per week (outdoors); Assistant for General Retail, Dispensing, and Photographic business; no Sunday or night duty. State age, height, references for last four years, and when disengaged, H. J. Bromhall, Pharmacist, Thetford, Norfolk.

40/- PER WEEK.—Assistant wanted for Counter, Window-dressing, etc. State age, experience, references, and when disengaged in first letter, or apply personally, to Bishop & Vincent, 460 Holloway Road, London, N.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

SOUTH COAST.—Dry Counterman required; experienced; comfortable permanency if suitable. Please state age, salary expected, etc., Timothy White Co., Ltd., Portsmouth.

ASSISTANT wanted for Wet Counter, also for Manufacturing Laboratory, by South London old-established Wholesale Druggists. Write details of experience, wages required, age, etc., to 69/72, Office of this Paper.

BUYER'S Assistant in Export Merchant's office; must have good knowledge of Drugs, Chemicals, and Druggists' Sundries; commencing salary £80, with good prospect of advancement. 36/14, Office of this Paper.

CAPABLE man wanted in Laboratory of London Wholesale Druggists; experienced in Manufacture of Chemical Syrups and Liquors, Ointments, Medicated Wines, etc. Write fully, mentioning remuneration expected, to 31/36, Office of this Paper.

CHEMICAL hand, with experience in the manufacture of Medicinal Chemicals, wanted; wages 45s. Apply, 61/16, Office of this Paper.

COUNTERMEN wanted at once; Juniors for both Wet and Dry Counters; export experience preferred; also girls for labelling, capsuling, etc. Apply by letter, stating previous experience, age, and wages required, to "Extracts" (62/38), Office of this Paper.

DRUG Trade.—Experienced man required as Finisher for Wet Counter; London firm. Apply, by letter, giving full particulars, to 67/65, Office of this Paper.

DRUGGIST (Wholesale).—Counter hand wanted at once. Apply at Apothecaries' Hall, Water Lane, Blackfriars, E.C.

DRUGS, Sundries, and Packing.—Factory and Warehouse Foreman-Manager required; good wages; only capable men need apply. State age, experience, and full particulars, to "C. S." (30/15), Office of this Paper.

LABORATORY.—Unqualified smart man wanted for Laboratory work; used to making B.P. preparations; permanency for good man. Apply, stating fullest particulars, to 32/018, Office of this Paper.

PACKER wanted; a competent man used to Druggists' Sundries. Apply, Butler & Crispe, 82 Clerkenwell Road, E.C.

PACKER wanted for Export Counter. State experience, age, and wages required to "Z." (66/74), Office of this Paper.

PERFUMERY and Toilet Sundry house require first-class commission Traveller for Wales and South-West England. Give full particulars, 33/25, Office of this Paper.

REPRESENTATIVE, young, enthusiastic, and a worker, wanted; one who knows Northern Counties of England and Wales, to call upon Chemists for a Packed Goods and Speciality house; moderate salary to commence with expenses and commission. "Pep." (69/7), Office of this Paper.

REQUIRED immediately, Assistant for Tincture Counter; experienced; good prospects to reliable man. Apply, with full particulars, to Burgoyne, Burbidges & Co., High Street South, East Ham, E.

REQUIRED at once, Packer for Wholesale Export Druggists in the City; must have had previous experience. Apply, by letter, giving full particulars and salary required, to "Packer" (56/72), Office of this Paper.

SMART unqualified Assistant required to travel Birmingham and district for firm manufacturing and packing cheap lines; occasional indoor duty (about one day a fortnight); good Salesman; sound prospects to intelligent and industrious man. Full particulars as to age, experience, and salary in first letter, Gibson, Manufacturing Chemists, Gooch Street, Birmingham.

REQUIRED, for American line of Surgical Rubber Goods—Gloves, Catheters, Teats, etc.—Sub-agents or Travellers on commission for Manchester and district, Midlands, Scotland, and Ireland; gentlemen with established connection amongst Wholesale Druggists' Sundries buyers and shippers preferred. Apply, with full particulars, to 36/21, Office of this Paper.

TELEPHONE Girl wanted. State age, experience, and salary required, Ayrtton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool.

TRAVELLER wanted for the Malt Extract trade, to call on Chemists; must have good knowledge of this business, and have good connection. Apply, giving full particulars, references, and salary expected, Box 690, Robertson & Scott, Advertising Agents, Edinburgh.

TRAVELLER wanted, with connection amongst London and Suburban Chemists, to sell Capsules, Sundries, etc., for firm established 20 years; £1 a week for expenses, also good commission will be paid; permanent post for good man. Send full particulars in first letter, 31/23, Office of this Paper.

TRAVELLERS wanted, working Midlands, North and West of England, to sell, on commission, British Synthetic Articles largely used by Manufacturing Chemists, Perfumers, and Soap-makers. 128/20, Office of this Paper.

WANTED, practical hand who thoroughly understands Mixing, Spreading, and Making-up Fly Coils. State experience and wages required in provincial town, 31/28, Office of this Paper.

WANTED by a Dublin firm, as Laboratory Assistant, a young gentleman, not under 22 years of age, possessing a sound knowledge of General Chemistry, and with some knowledge of Pharmacy. Apply, stating salary expected, age, where educated, and copies of testimonials, to 67/47, Office of this Paper.

WANTED, a smart young man to Manage small Mineral Water Factory and to do all necessary work in the Syrup Room; must be willing to make himself useful; wages 35s. 29/25, Office of this Paper.

WANTED, capable Junior Assistants for Laboratories and Wet and Dry Rooms. Apply, stating age, experience, and wages required, to Lofthouse & Saltmer, Ltd., Wholesale Druggists, Hull.

WANTED, young men, 25 to 35, with experience in Packing and introducing Proprietary articles; must be good Managers and Organisers; willing to undergo preliminary training with a view to qualifying as Managers of Colonial branches of large Proprietary Medicine Co.; must be possessed of initiative, commercial capacity, and ambition. Apply, with full particulars, 60/68, Office of this Paper.

WAREHOUSEMAN required, used to Patent Medicines and Sundries. Write, stating salary required and full particulars, to 116, Sell's Advertising Offices, Fleet Street, E.C.

WET Floor Assistant wanted. State age, experience, and wages required to "Z." (66/074), Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid. The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

CANADA.—Situation offered to competent and trustworthy Belgian Pharmacist speaking English and French; would arrange for transport charges. Write to United Drug Co., 114 Old Ball Street, Liverpool.

CEYLON.—Druggist, unqualified, age 23 to 26, single, wanted for first-class British business in Ceylon; good tropical climate; 4 years' agreement; passage paid; liberal salary to smart man with experience of good-class Retail trade. Apply, giving full particulars of experience and stating present salary, to 26/38, Office of this Paper.

HANKOW, China.—Qualified Assistant wanted; three years' agreement; £25 per month (indoors); second-class passage paid out and home. Apply, Meggeson & Co., Ltd., 14 and 15 Miles Lane, E.C.

STRAITS SETTLEMENTS.—Qualified Chemist, age 25 to 30, required as Branch Manager; must be a capable Pharmacist and keen business man; experienced in all branches of the trade, including Photo Goods and Optics; four years' agreement; second-class passage paid out and home; salary 200 Straits dollars per month for first two years, 300 per month for third and fourth years (the dollar being taken at the rate of 2s. 4d.). Apply Burgoyne, Burdidge & Co., High Street South, East Ham, London, E.

WANTED for South Africa, qualified Chemist with good Optical knowledge, capable of Sight Testing and doing practical Grinding and Fitting of Rimless work, etc.; age about 25 to 30; salary £20 per month and commission; splendid opening for competent man; beautiful, healthy seaside place. Apply, in first instance, to E. R. Dixon, Chemist, Lincoln.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

[HOME.] RETAIL.

A.A. Pharmaceutical Chemist, 24, thoroughly experienced in good-class Pharmacy, desires good permanency; excellent London and Provincial references. 29/26, Office of this Paper.

ABLE Pharmacist desires berth, with view succession; easy terms; £50 down; London. 36/12, Office of this Paper.

ACTIVE, competent business man; thoroughly experienced Dispenser. Forster, 5 Coleridge Road, Finsbury Park, N.

ADVERTISER, 30, unqualified; experienced; good references; disengaged. Alexander, 38 Garfield Road, Clapham Common.

ASSISTANT, qualified, 25, Dispensing experience, disengaged; West or South-West London preferred. 30/7, Office of this Paper.

ASSISTANT, 27, requires berth shortly; unqualified; good Dispensing experience; short hours; permanency; Photography. "E.", 14 Broad Street, Brighton.

ASSISTANT; evenings 6-8; first-class Dispensing experience. Allman, 361 Clapham Road, S.W.

ASSISTANT, 40, unqualified, good varied experience, requires situation in London or Suburbs only; salary moderate. 34/25, Office of this Paper.

ASSISTANT, unqualified (36), unable, through ill-health, to stand long hours, seeks light berth as Dispenser to Doctor, or as Branch Manager; country preferred; tall; abstainer; married; 20 years' experience in private and store trade; disengaged. Smith, "Berinuda," Alexandra Road, Upper Parkstone, Dorset.

ASSISTANT; 7 years' experience, first-class Scotch and English. "Seven Years" (34/028), Office of this Paper.

ASSISTANT; 6 years' first-class Dispensing and Counter experience. "Six Years" (34/28), Office of this Paper.

COMPETENT, reliable man, small capital, seeks berth in Drug-store, management or otherwise; view, if possible, to succession; could work up neglected; London or near. "Radix" (32/25), Office of this Paper.

DISENGAGED; permanency; Locum; qualified; excellent references; moderate terms. 8 Windsor Crescent, Mannamend, Plymouth.

DISENGAGED; qualified; 38; whole or part time. "Pharmacist," 37 Besborough Gardens, S.W.

DISPENSER (lady), unqualified, seeks post; Doctor or Chemist; good experience; thoroughly reliable. 33/20, Office of this Paper.

DISPENSER, Locum, or Assistant; first-class experience. "Dispenser," 58 Malvern Road, West Kilburn.

DISPENSER; mornings to 1 p.m.; all day Friday. "M.", 10 Argyle Square, W.C.

DISPENSER, Bookkeeper, Surgery Attendant, good references, disengaged, seeks position with medical man in Lancashire. 34/10, Office of this Paper.

DISPENSER, qualified, well-experienced woman, holding Hospital post, would give free time in exchange for comfortable room; West or City district preferred. 35/29, Office of this Paper.

EVENINGS in W. or N.W. district. "Worker," 5 Gillingham Road, Cricklewood.

EVENINGS; Lady Dispenser; N.H.I. qualification; experienced. "E. B.," 140 Green Lanes, Stoke Newington.

EVENINGS; Dispenser (Male); Hall qualification. "Statim," 108 Portnall Road, Maida Hill, W.

EXCHANGE for Bedroom, etc.—Minor, now Wholesaler, has evenings and Sundays free. 36/15, Office of this Paper.

LADY Dispenser desires post, London or near preferred, with Doctor or Chemist; experienced; Bookkeeping, Shorthand, Typewriting, Pricing, Card-indexing; replying please state hours. 31/24, Office of this Paper.

LADY Dispenser, Hall certificate, 7 years' experience, requires post. "Y. S." (30/4), Office of this Paper.

LADY Dispenser-Bookkeeper (Hall) seeks post; experienced; in or near London preferred. 32/14, Office of this Paper.

LADY Dispenser, Hall, three years' experience, excellent testimonials, desires post with doctor or institution; in or near London preferred. 33/26, Office of this Paper.

LIVERPOOL or **DISTRICT**.—Student seeks Part-Time berth; mornings preferred. Pughe, Pharmacy, Llanfairfechan.

LOCUM, qualified, disengaged; thoroughly experienced and trustworthy. "Chemicus," 58 Fulham Palace Road, W.

LOCUM, 30, qualified; Dispensing, Prescribing, Photography, Agricultural. "B.", 12 Bersham Road, Wrexham.

LOCUM, or Manager, qualified; good experience; also references. "Chemicus," Ivories House, Horley, Surrey.

LOCUM, qualified; experienced; 32; disengaged. "A.", 40 King's Road, Brighton.

LOCUM, qualified; well experienced in routine of Pharmacy and Drug Stores; good references; disengaged April 18. "N.", 1 Ordinance Place, Shooter's Hill, Woolwich.

LOCUM, unqualified; experienced, reliable; total abstainer; few open dates; London only. "Statim" (33/12), Office of this Paper.

LOCUM or permanency, qualified; 38; disengaged; Dispensing experience. "Chemist," 54 Bell Street, N.W.

LOCUM or permanent; Assistantship; disengaged 17th. "B.", 1 Oak Villa, Bitterne, Southampton.

LOCUM, qualified; 25; tall; two years' West-End experience; London or Provinces; excellent references. Apply, stating terms, etc., to 32/28, Office of this Paper.

LOCUM, unqualified, 29, or Relief; experienced; reliable; total abstainer; disengaged. Give terms, "Statim," 204 Ebury Street, S.W.

LONDON.—Improver, three years' experience, wishes situation with some time for study; small salary accepted for suitable place. "Student," 46 Churton Street, Belgravia, S.W.

M.P.S. (29) as Manager; permanency with good prospects; disengaged May 12. "Experienced" (30/19), Office of this Paper.

M.P.S. with six years' good town and suburban experience. Ingham, 7 Lyndhurst Road, Burnley.

M.P.S., 34, single, smart business man, desires responsible position about May 20; Manchester district; Branch or Senior; excellent references. 32/39, Office of this Paper.

MAJOR as Manager or Senior; eight years; good-class Retail experience; 25; silver and bronze medallist, London College. F. S. Coates, Square, Ashburn.

MANAGER; 30; large business only; organiser; control staff; highest references. Address, "Biz" (29/39), Office of this Paper.

MANAGER or Senior in London; qualified; 28; tall; married; West-End experience. 31/31, Office of this Paper.

MANAGER; 31; qualified; married; first-class experience, West-End and Provincial; exceptional references; London or South preferred. "Eleven" (33/36), Office of this Paper.

MANAGER, qualified; experienced; Buyer, Counterman; floated several successful well-known West-End Store Pharmacies; permanency desired; disengaged. "Chemist," 50 Shirland Road, W.

MANAGER-ASSISTANT, unqualified; young; married; Dispensing, Counter, Window-dressing, Photography; Leeds or near preferred. 34/38, Office of this Paper.

PART-TIME; competent; reliable; Dispenser, Salesman; excellent references. "B. R.," 164 Clapham Road.

PHARMACIST and F.S.M.C. (43), exceptional experience and highly recommended, desires post as Manager in good-class Dispensing business; Midlands or South preferred; married; permanency. 33/31, Office of this Paper.

POSITION wanted by unqualified man; age 30; best Store and General experience; excellent references; North preferred. 33/27, Office of this Paper.

QUALIFIED; 45; married; permanency or Locum. 30/20, Office of this Paper.

QUALIFIED; disengaged; experienced; temporary or otherwise; 33. "S. W.," 36 Lisbon Street, Leeds.

QUALIFIED (25), disengaged, seeks berth in good-class Dispensing business; good all-round experience, including Photography. R. J. Pitchforth, Station Square, Saltburn-by-Sea.

QUALIFIED (24) requires situation in London; high-class Dispensing experience; excellent references; competent; abstainer. 32/8, Office of this Paper.

QUALIFIED; Locum, permanency; 36; married; Counter, Dispensing; disengaged. Stewart, 3 Elborough Street, Southfields, S.W.

QUALIFIED; middle-aged; single; out of business some time; live at premises preferred; small salary; permanency only; two certificates handy for exhibition. "Occupation" (36/1), Office of this Paper.

QUALIFIED; 42; Dispensership or Branch Manager; Lancashire or Yorkshire. "Statim" (36/3), Office of this Paper.

QUALIFIED; married; 29; Window-dressing, Counter, expert; London; outdoors. 22 Devonshire Road, Clapham.

UNQUALIFIED; 24; 5 ft. 10 in.; permanency; outdoors; good all-round experience. State salary and hours, 31/6, Office of this Paper.

UNQUALIFIED seeks position (in North of England preferred) where Extracting and Dental work is done on premises; good Prescriber, Dispenser, Salesman, and Window-dresser; long hours not objected to; 9 years' experience. 30/13, Office of this Paper.

UNQUALIFIED (28), married, requires permanency in country; experienced Dispenser, Photographic; trustworthy; good references; disengaged. State salary, Oakes, Old Tea Rooms, Ely, Cambs.

UNQUALIFIED; accustomed to Manage; 39. "Rhei," Kirkby Malham, Bell Busk, via Leeds.

UNREGISTERED, experienced Assistant seeks comfortable permanent berth; good worker; competent; sober; obliging; capable sole charge; London or district. "Statim," 41 Harcourt Road, Stratford, E.

UNQUALIFIED, age 33, tall, good all-round experience, first-class references, seeks berth as Manager of Drug Store, or would act as Locum. "Rhei" (34/26), Office of this Paper.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

COMPETENT Clerk seeks evening work; well acquainted with Chemists' terms. Write, "B. A. J." (30/1), Office of this Paper.

DRUG-GRINDING, Perfumery, Sundries.—Thoroughly experienced, seeks berth; capable Buyer, Stockkeeper; excellent references. 35/28, Office of this Paper.

GENTLEMAN, 38, tall, good address, 20 years' first-class experience, is open for an outdoor engagement. "Lenoil" (32/21), Office of this Paper.

REPRESENTATIVE, having sound connection London and suburbs, seeks position with good firm on expenses and commission terms; excellent references and sound experience. 36/22, Office of this Paper.

SCOTSMAN (30), married, unqualified, tall, good appearance, 15 years' Wholesale and Retail experience, desires change; responsible position; 9 years' present situation; Sundries and Patents; capable Stockkeeper. 32/2, Office of this Paper.

YOUNG man employed Wholesale would assist Chemist evenings after 6; London. J. J. Corner, 3 Denmark Place, Chapel Road, West Norwood, S.E.

YOUNG man requires situation; first-class Tablet, Pill hand; slight experience Sugar-coating. 35/34, Office of this Paper.

YOUNG gentleman desires responsible position; excellent experience, Retail, Manufactory, Wholesale; enthusiastic and methodical; at present controlling large finishing staff with London firm. 35/27, Office of this Paper.

YOUNG man (30), buyer and stockkeeper in Patents, etc., desires change; could fill position as Traveller or take charge of order department. 31/38, Office of this Paper.

WAR WANTS EXCHANGE.

The object of this section is to facilitate the interchange of pharmaceutical products which are scarce at present owing to the War, and which the inquirers have failed to obtain through the customary business channels.

TERMS

Minimum charge (including registration fee) of 1/- for six words or less; 2d. per word beyond, prepaid. Inquiries are inscribed with a registration number attached to each item, and replies will be communicated direct to the inquirers by the Information Department of "THE CHEMIST AND DRUGGIST."

WANTED.

Principals having any of the following articles to dispose of are requested to notify the fact by postcard or otherwise stating quantity and price to

THE WAR WANTS EXCHANGE,

"The Chemist and Druggist," 42 Cannon Street, London, E.C. Chloralamid (67/62) Salacetol (34/35)

FOR DISPOSAL.

Bona-fide buyers of the following articles are requested to communicate their exact requirements promptly to us, and we shall place them in touch with sellers:—

Acetyl-salicylic acid (31/17) Potassium iodide (34/9)
Atropine sulphate (34/9) Sodium salicylate (34/9)
Phenacetin (31/17)

MISCELLANEOUS.

MACADAM & TUCKNISS, Sharedealers, Bank Chambers, Blackheath, S.E. Established 1898. Telephone 81 Lee Green.

Shares for Sale (free of commission, subject).—250 Dolok Coffee and Rubber, 2s. shares, 1s. 6d.; 300 Bovril Deferred, 7s. 4½d.; 115 Mellin's 6 per cent. Preference, 17s.; 62 International Spunge Ordinary, 6s. 10½d.; 100 Alby Carbide, 18s. 6d.

Wanted (subject).—Wright, Layman Preference, Allenbury Preference, Camwal Preference, and Idris Preference.

Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

SHOPFITTINGS (Second-hand).—12-ft. Plate-glass fronted and solid Mahogany Counter, £8 10s.; 10-ft. ditto, £7 5s.; Perfumery Case and Desk, mirror box, glass shelves, solid Mahogany, 57s. 6d.; 6-ft. Mahogany and Bent Plate-glass Counter Case, 92s. 6d.; other bargains. Philip Josephs & Sons, Ltd., 93 Old Street, E.C.

SECOND-HAND Chemist's Fittings.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, **RUDDUCK & CO.**, 262 Old Street, London, E.C.

BEST cash price paid for all old Cameras, any make, also all old Photo goods, no matter how damaged; any kind you may have send them along; cash will be sent same day; no waiting; we buy all and return nothing. S.E. Hackett, 23 July Road, Liverpool, E.

CHEMISTS' Shopfittings.—Silent Salesman, Showcases, Window-enclosures, Dispensing-screens, Drug-fittings, Wallcases, Glass-front Counters, Counter Drawers, etc., at lowest prices; shop-soiled second-hand; 30 years fitting pharmacies; you will save time and money by sending your requirements to George Cook, The Chemists' Working Shopfitter, Catherine Street, City Road, Old Street, London.

GAUZE bandages, 2 in., 2½ in., and 3 in. by 5 and 5½ yards long; quantity left over from contract. Write, 29/27, Office of this Paper.

CHEMIST.—Complete set of modern Fittings; good second-hand; 12-ft. Drug Fitting, complete; 10-ft. Glass-fronted Counter; 6-ft. Dispensing Screen and Counter; Perfumery Case and Desk; 4-ft. Mahogany Bent Plate-glass Counter Case; 6-ft. Mahogany Wall Case; £43 10s. the lot; absolute bargain; cheapest house for Window Enclosures, Glass Shelves, modern Shop Fronts, improvements, etc.; designs, estimates free. **MILLS, Shop Front, Shop Fitting, Glass Facia Works**, 163-5 Old Street, London, E.C. Phone 550 London Wall.

YOU SHOULD DECIDE NOW and secure these "SPECIAL CLEARANCE OFFERS"—and reap the benefit.

For 3/-	CARR. PAID.	1 Doz. assorted White and Coloured Enamels, 5½ x 3½ & 6 x 4
		and Four 12 x 6 Art Spun Tints, with names and Price of each Prep. Two Prices—Limit for the 12 x 6 size
2/4		1 Doz. various Art Spun Tints, size 8 x 6. Names and Prices of each Prep.
2/3		1 Doz. assorted Enamels and Art Spun Tints, 5½ x 3½ & 6 x 4, with names and price of each Prep. One Price for each card.

F. MERTEN & CO., 72 Marlborough Rd., Holloway, London, N.

NEW EDITION OF "PHARMACEUTICAL FORMULAS."

The first edition of this work was published in April 1898, and the ninth in June 1914. In the interval the book has been much enlarged and improved. It comprises the following chapters—Toilet Preparations and Specialities; Preparations for the Hair; Dental Preparations; Perfumes; Beverages; Culinary and Household Requisites; Horticultural and Agricultural Preparations; Writing Materials; Varnishes, Polishes and Stains; Lozenges; Miscellaneous Preparations; Photographic Chemicals and Preparations; Galenical and Medicinal Preparations; Bacteriological and Microscopic Work Preparations; Supplementary Chapter; Appendix. As a Book of Formulas for Chemists and Pharmacists there is no better than this in the English language. It was the first book officially approved by the Revenue Authorities of Great Britain as a well-known and recognised book—reference to formulas in which is accepted as evidence that a medicinal preparation is a "known, admitted and approved remedy" exempt from medicine stamp duty when sold in Great Britain by a privileged person. It is thoroughly up-to-date and extends to 1,078 pp., including a complete index. Price 10s., post free 10s. 6d., from the Offices of "The C. & D.," 42 Cannon St., London, E.C.; or from Wholesale Houses at the published price.

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number. No advertisement inserted for less than 6d.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

FOR DISPOSAL.

BOOKS AND PERIODICALS.

WHAT offers?—"Chemist and Druggist" or "Pharmaceutical Journal" posted weekly, also back numbers; accept literature or cash. 28/24, Office of this Paper.

"CHEMIST AND DRUGGIST," nearly complete set since it came out as a weekly publication; partly bound; what offers? Address, 122 Pepys Road, London, S.E.

OPTICAL AND PHOTOGRAPHIC.

FOR sale, splendid microscope, makers Hartnack; also quantity of slides. Apply, in first instance, C. L. Clegg, 18 Milton Place, Halifax.

PROPRIETARY ARTICLES.

60 1s. 1½d. Wait-and-see, 20s.; 5 1s. 1½d. Oxien, 2s. 6d.; 4 1s. 1½d. Vitaloids, 2s.; 1 4s. 6d. D.D.D., 2s.; 2 4s. 6d. Shano liniment, 2s.; 2 7½d., 2 1s. 6d. Infantina, 2s. 6d. 132 Melton Road, Leicester.

SHOP FITTINGS.

FOR sale, three handsome Y.G. Co. new show bottles, cut-glass stoppers, wineglass stands, 4 gall.; what offers? 114 High-bury New Park, N.

TWO pear-shaped carboys, sponge showcase, also several nests of drawers to sell cheap; what offers? Lewis & Cooper, Ltd., Northallerton.

HANDSOME 12-ft. range mahogany drawers, shelving, large centre mirror, glass labels, nearly new, with glass recess labelled bottles and jars, complete. "Chemist," Farley Cottage, Oakamoor, Staffs.

MISCELLANEOUS.

OVERSTOCKED.—4-oz. bottle Merck's cocain. hydroch.; 5 bottles 2s. 9d. Sirolin (clean). Best offer, "Chemist," 261 Dewsbury Road, Leeds.

COCAIN. hydroch., B.P., 200 original ¼-oz. bottles, 2s., each, what offers for lot? 6 doz. ¼m. lens clinicals, Perkin's, 20s. doz., offers for lot. Cleave, Chemist, Notting Hill Gate, W.

WANTED.

LENS, No. 2a Aldis, f6.3 and trio in compound shutter. 2/24, Office of this Paper.

WANTED, a few ozs. of vanadate of ammonia. Blackwood & Co., 18 Broad Street Hill, London.

STUCCO figure of man removing corn on toe. Price, etc., to 34/15, Office of this Paper.

WANTED, watch-pocket carbines, Cameo and other cameras. Wilcox, Photo. Chemist, Wigan.

WANTED, show carboys. Write, giving particulars as to size and shape, to 32/1, Office of this Paper.

CHEMIST'S son, in Army, requires a pair of prism binoculars. State price, etc., 51/29, Office of this Paper.

WATCH-POCKET carbines, compound shutter. State lowest price to Bryan & Spedding, Ltd., 48 Deansgate, Manchester.

WANTED, Richter's pain expeller. Please quote price and quantity, Davies, Chemist, 119 Raiton Road, Herne Hill.

WALL showcases wanted, also silent salesman for counter; must be good and cheap. Bowling, Chemist, Pembroke Dock.

ANY size Parker's essence of ginger, in square bottles, at least twelve months old. Burnett & Turner, Chemists, Clifton, Bristol.

MICROSCOPE, triple nose-piece, three objectives, one 1½ oil-immersion Abbé condenser; Bauch & Lomb preferred. Rush-ton, Chemist, Hall Green, Birmingham.

OPTICAL books; Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, London, S.W.

HALF retail price given for watch-pocket carbines, vest-pocket Kodaks, and other small folding cameras; full price given for stereo prism binoculars; cash by return. Watsons, 84 High Street, Sheffield.

Our American Letter.

(Special Correspondence to the "C. & D.")

Wood-naphtha.—We referred recently to the Swedish requirement that wood-naphtha must be coloured before it is sold, so that it cannot be mistaken for alcohol. In various States in America there are Bills before the Legislatures regarding the sale of wood-naphtha. An Indiana Bill requires that it be coloured a bright green and labelled "Poison." It is proposed to prohibit the use of wood-naphtha in medicinal or toilet preparations in Kansas, New Hampshire, South Dakota, and Rhode Island.

Harrison Narcotic Law.—A number of rulings on points that have arisen under the Harrison narcotic law have been issued by the Commissioner of Internal Revenue. These are generally interpretations of the regulations, but one important question that has arisen is whether novocain or similar preparations come under the provisions of the law as synthetic substitutes for cocaine. Until the decision is made collectors of internal revenue have been advised that these substances do not come within the scope of the law.

Dispensing by Doctors.—The Connecticut State Legislature's Committee on Public Health and Safety has before it, states the "Pharmaceutical Era," a Bill prohibiting physicians from dispensing medicine unless they have become registered as pharmacists. The measure has caused considerable ill-feeling between the two professions, particularly inasmuch as a representative of the druggists has asserted that many doctors in the State had written prescriptions that would have resulted in death of the patients if the druggists had filed the prescription as written.

The Rittman Process for making petrol, toluol, and benzol from petroleum consists of two parts, one being the production of petrol (gasoline) from petroleum and the other the manufacture of toluol and benzol hitherto obtained from coal-tar exclusively. The importance of a large supply of toluol and benzol is recognised on account of the demand for these chemicals for the production of aniline dyes and high explosives. The United States has up to now obtained the bulk of its supply of toluol and benzol from Germany. Dr. Rittman has received an offer for the English rights in his inventions.

B.P. Reviewed.—Mr. Otto Raubenheimer presented a paper to the New York branch of the American Pharmaceutical Association, which was entitled "A Review of the British Pharmacopœia," and advanced the opinion that this book of standards is not as good as it should be. Mr. Raubenheimer, in his reference to the substitution of the term "mil" for cubic centimetre in the B.P., stated that the Revision Committee of the United States Pharmacopœia had also decided to make this change. Mr. Caswell A. Mayo (President of the A.Ph.A.) presented the following motion, which was unanimously adopted: "Be it resolved that the New York branch protests against the adoption of the term 'mils' for 'c.c.' and that the Chairman of the Revision Committee of the U.S.P. be requested to call for another vote on the question."

New Books.

Any book published in the United Kingdom can be supplied to our subscribers at the price quoted. Orders, with remittance, should be sent to the Publisher, 42 Cannon Street, London, E.C.

Fischer, M. H. *Edema and Nephritis: A Critical, Experimental, and Clinical Study of the Physiology and Pathology of Water-absorption in the Living Organism.* Second edition. 9x6. Pp. 695. 21s. (Chapman & Hall, Ltd.) [A combination of the contents of the 1909 Nathan Lewis Hatfield Prize Essay of the College of Physicians of Philadelphia and of the 1911 Cartwright Prize Essay of the Alumni of the College of Physicians and Surgeons of Columbia University, New York, previously published as separate volumes. These are brought up to the present time.]

Johnston, R. M. *The Statesman's Pocket Year-book of Tasmania, 1914.* 3½x3. Pp. 94. (Vail, Hobart.) [A Government publication which gives statistical information regarding Tasmania in a series of tables. Mr. Johnston is the Government Statistician.]

Lindley-Jones, Walter. *Mercantile Year-book and Directory of Exporters.* 7x4½. Pp. 712. 10s. (Lindley-Jones &

Bro.) [This, the twenty-ninth annual issue, has been carefully revised and brought up to date. Considerable difficulty and labour has been attached to the revision, but in spite of this some 800 new names have been added to the list of oversea buyers in Part 2. The list of Continental exporters has been retained for reference, but that portion relating to Germany, Austria, and Turkey will require considerable excision in the next edition.]

Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be sent to the Editor by Wednesday of the week before the meetings, etc., occur.

Tuesday April 20.

Röntgen Society, Institution of Electrical Engineers, Victoria Embankment, London, W.C., at 8.15 p.m. Dr. N. S. Finzi on "Late Radium and x-ray Burns." Mr. F. H. Glew on "A New Alpha Ray Effect."

North London Pharmacists' Association, St. Padarn's, Salters' Road, Seven Sisters Road, N., at 10.15 p.m. Special meeting.

Wednesday, April 21.

Sheffield Pharmaceutical and Chemical Society, Literary and Philosophical Society's Rooms, Church Street. At 8.45 p.m. a resolution altering Rule 9 will be discussed. At 9 p.m., consideration of the Compulsory Shop-closing Order.

Thursday, April 22.

The Chemical Society, Burlington House, Piccadilly, London, W., at 8.30 p.m. Among the papers to be communicated are the following: "The Constitution of Internal Diazo-Oxides (Diazo-phenols)," by Dr. G. T. Morgan and Mr. J. W. Porter; "A Method for Distinguishing Tautomeric from Polymorphic Substances," by Mr. N. V. Sidgwick; "Metallo-Compounds in Solution," by Professor S. U. Pickering; "Studies on the Walden Inversion. Part I. The Influence of the Solvent on the Sign of the Product in the Conversion of Phenylchloroacetic Acid to Phenylaminoacetic Acid," by Dr. G. Senter and Mr. H. D. K. Drew; "The Energy Distribution in the Radiation from the Uviol-Glass Lamp," by Mr. A. J. Allmand.

Friday, April 23.

Royal Institution of Great Britain, Albemarle Street, Piccadilly, London, W., at 9 p.m. Major Percy S. Lelean on "Military Hygiene at the War."

THE SOUTH-WESTERN PHARMACISTS' ASSOCIATION of London will hold their annual dinner at Frascati's on Wednesday, April 28, at 7 o'clock. Tickets for the dinner may be obtained from Mr. E. A. Atkins, 71 East Hill, Wandsworth, at 7s.-6d. each. The dinner is in aid of the Belgian Doctors' and Pharmacists' Relief Fund.

The rooms of the Chemical Society will be opened for an informal meeting on April 29, at 8 p.m., when the President and Council will be glad to receive Fellows. Smoking will be permitted, and light refreshments will be provided. Fellows are invited to exhibit apparatus and specimens of interest, and to show experiments; those Fellows wishing to do so are requested to communicate with the Assistant Secretary not later than Monday, April 26.

ANCIENT REMEDIES.—M. Porignet has recently published the following additional notes on old remedies. The "strawberry cure," he reminds us, is a revival from past centuries. Linnæus ate this fruit to cure his rheumatism. Hoffmann prescribed its abundant use for pulmonary disorders, Chaumeton recommended it for scurvy, and Van Swieten believed that even the violent forms of mental malady would succumb to a course of strawberries. The bark of the ash was a popular febrifuge before cinchona was discovered; while its foliage had, in the opinion of the ancients, marvellous qualities. Pliny alleged that no serpent would rest beneath its shade, and Dioscorides recommended the leaves as a safeguard against snake-bites. Scarcely less remarkable are the legends that cluster around the yew, which Anglo-Saxons associate with peaceful churchyards. The Greeks believed that to sleep under the Acadian yew was to court death; Galen, Pliny, and Dioscorides alike considered the tree dangerous. Matthioli writes that around Narbonne the smell of the tree alone sufficed to kill rats (there is surely a hint here for a safe and effectual vermin-killer); and Ray states that the gardeners of Pisa who clipped yews suffered from violent headaches after the first half-hour. Ginseng (*Panax quinquefolium*), still so highly appreciated by the Chinese, was brought to Europe by the Dutch three centuries ago; the first roots were sold at 150 florins apiece.

THE SUCCESS OF

The Wigglesworth Way

WAS RESPONSIBLE FOR THE APPEARANCE OF THIS
LETTER IN THE "C. & D.," FEBRUARY 6, 1915.

Window-dressing for Chemists.

SIR,—The article dealing with chemists' windows in last week's issue of the *C. & D.* should help to bring home to many of us chemists the fact that we have, as a body, neglected a most valuable form of advertising. The special cough-lozenge display by Mr. Jones greatly interested us, and, while congratulating him upon the originality of the display and the result obtained, we must take exception to the high proportion of expenses incurred compared with the profits earned. Not all chemists possess the gift of originality in arranging window-displays; those so gifted may not be able to expend the necessary time, and are compelled to leave this work to an assistant, who generally puts in as little "idea" and "originality" as possible. To those so situated perhaps our experience with a similar lozenge during the past few winters will show how it is possible at least to equal the results of Mr. Jones's display, at practically no expense to themselves. Our sales each winter have exceeded 5 cwt., while this winter we are well on the way with the sixth hundredweight, notwithstanding the fact that they were taken from the window for three weeks to allow for the display of Christmas perfumery, during which time the sales averaged over 30 lb. per week. We obtain our supplies from an up-to-date firm, regular advertisers in your paper, and they supply free of charge all the necessary material for a striking display; further, any ideas for a show submitted to them are worked up by their artists and supplied free. Also cartons, bearing the name and address, are supplied, and they form a valuable advertising medium.—Yours truly,

EASTERN COUNTIES. (250/54.)

"Eastern Counties"

is an

Enthusiast

of

The Wigglesworth Way."

WE ARE NOW BOOKING CONTRACTS FOR

SULPHUR TABLETS.

QUALITY AND FLAVOUR
NEVER BEFORE EQUALLED

COMBINED WITH

ADVERTISING THAT WILL MAKE YOU AN
ENTHUSIAST OF "THE WIGGLESWORTH WAY."

WE SOLICIT YOUR INQUIRIES.

WIGGLESWORTHS ROSEHILL WORKS. BOLTON

TO WHOLESALE & EXPORT TRADES.

ESTABLISHED 1846.

Extracts
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RANSOMS

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WILLIAM RANSOM & SON, LTD.,

MANUFACTURING PHARMACEUTICAL CHEMISTS,
Distillers of Essential Oils and Cultivators of Medicinal Plants,

HITCHIN, near LONDON.

Telephone: 95 HITCHIN

A guarantee **Cadbury's Cocoa Essence** (unflavoured)
is absolutely pure & prepared only from the finest selected Cocoa

50 YEARS' REPUTATION.

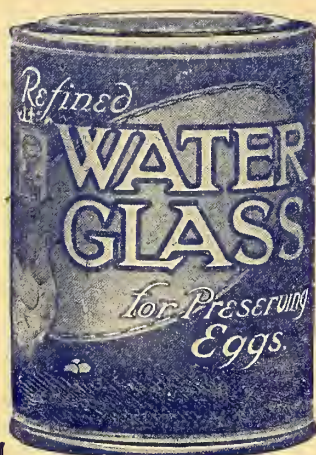
FENNINGS' CHILDREN'S POWDERS.

ADVERTISED EVERYWHERE.

READY SALES.

A supply of Fennings' "EVERY MOTHER'S BOOK" or Counter Bills (both with Agent's Name and Address), or Showcards, sent carriage free on application to

ALFRED FENNINGS, COWES.



PRICES:

1 lb. (in attractively labelled lever-lid Tins)	2/2 doz.
2 " " "	3/6 "
4 " " "	6/6 "
7 " " "	10/- "
14 " " "	19/6 "

Less 2½% to a/c.

Tins free.

F.O.R. Leeds.

EGG Preserving

THE recent extraordinary dearness of Eggs is likely to result in a record season for Waterglass—now that economy is so popular and so necessary, everybody will wish to have a stock of summer eggs 'in pickle.'

To say to a lady, "If you use this Waterglass you need never again buy eggs at five-for-a-shilling," is not only to sell a tin, but to win a customer for future years.

With refined Waterglass of the quality we are packing, satisfactory preserving is easy and certain. The varnished label (olive green and red) is the most attractive on the market, and it bears directions at once explicit and easily followed.

Goodall, Backhouse & Co., Leeds.